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MIRT

DEFINITIONS OF INDEXING TERMS

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MATRIS Indexing and Retrieval Thesaurus

MIRT

Definitions of Indexing Terms

August 1994

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MANPOWER

B MANPOWER

Broad collective personnel referent in the predicting of personnel, of force, requirements, and forecasting availability of personnel; performing accession planning; developing and managing various manpower force structures.

Bc Manpower policies

Policies established by Congress relative to end-strength, by the executive branch with respect to manpower programs, and by the DoD and the individual Services relative to manpower management.

Bcc Accession policies

Policies which concern the recruiting, selection and initial assignment of Service personnel.

Be Manpower planning

A highly involved, quantified process in which force manpower requirements are compared to manpower availabilities with consideration of losses in order to supply military forces with needed manpower within budgetary limits.

Bea Personnel planning

Bec Labor market analysis

Analysis of the labor market for groups with certain demographics, or specialized occupational groups of interest with respect to whether the market is stable, expanding or contracting; has implications for recruiting.

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Beca Market analysis

Becc Youth labor market

The facility with which young adults, with various given demographic background characteristics, can find employment in the civilian workforce and the occupational areas offering such employment.

Bee Manpower forecasting

Process by which predictions are made of the numbers and qualities of personnel likely to be available for enlistment in the armed forces at various points in the future.

Beec Enlistment forecasting

Prediction of numbers of eligible individuals who will opt to enlist in the military within a given period, based on past performance and current influencing factors; e.g., the labor market, attitude toward the military, etc.

Beee Reenlistment forecasting

Process of estimating the numbers of eligible individuals who will decide to reenlist at first and second reenlistment points in their careers, based on past information and available prediction models.

Beeg Manpower loss forecasting

The process of estimating attrition within a military force due to such factors as academic failure, health reasons, injury, maladjustment, etc., before expiration of active obligated service (EAOS).

Beegc Casualty estimation

Estimating personnel losses due to operational accidents and to enemy action.

Beg Manpower requirements

Stated quantities and qualities of manpower considered/estimated to be necessary to staff and support a given warfare system, considering such factors as loss projections, promotions data, end strength allocations, etc.

Bega Manpower demand

Begc Manpower shortages

Instances in which available manpower is less than what is expected or needed, due to such factors as shrinking enlistable populations, attrition due to academic failure in training, lower reenlistment rates, etc.

Bei Manpower supply

Available sources of manpower and manpower pools with particular characteristics; e.g., trained personnel, enlistable personnel, high school graduates, individuals with prior service, etc.

Beia Manpower availability

Beia Manpower pool

Beic Industry competition

Competition presented by the civilian sector for personnel which otherwise might be enlistable by the military. Particularly a problem in an expanding job market with increasing military personnel needs.

Bg Manpower management

The general process of organizing, controlling, assigning and directing available manpower resources so as to meet stated quantitative and qualitative manpower requirements within budgetary limitations.

Bgc Manpower utilization

That process of optimizing the numbers, skills and capabilities of available manpower in fulfilling manpower requirements while minimizing manpower costs (or operating within stated budgets).

Bgca Manpower allocation

Bgcc Manpower utilization systems

Computerized systems which aid manpower managers in identifying optimum manpower use strategies; may include simple manual systems for personnel management.

Bgc Marginal manpower utilization

The utilization of various types of manpower with limited capabilities, such as individuals with marginal AFQT scores, i.e., Category IIIb and Category IV enlistees.

Bge Manpower management techniques

Various techniques, methods, algorithms, models, programs, etc., which aid the manpower specialist in managing manpower resources.

Bgg Manpower management evaluation

Evaluation process including manpower plans, strategies, methods of execution, and decision making with respect to quality of performance in filling manpower needs within stated budgetary constraints.

Bgi Force reduction

Reduction of military force (personnel) levels and associated commitments; considers type of forces and geographic location (e.g., U.S. ground forces assigned to the European theater).

Bgk Manpower management information systems

Computer-based information systems which contain various forms of manpower data which are vital to manpower planning and management functions.

Bgkc Enlistment / reenlistment projection systems

Critical components of manpower planning, usually computer-based, which attempt to predict numbers of military personnel of certain classifications who will decide to enlist in a military Service or those who will decide to reenlist.

Bgke Attrition management information systems

Information systems which track and report attrition rates for various types of personnel and service events which are used to develop controlling interventions and/or for manpower planning purposes.

Bi Force capability

The general capability of a stated manpower force to undertake and sustain a given type of warfare activity in order to fulfill stated mission objectives.

Bia Defense capability

Bia Force effectiveness

Bia Manpower capability

Bia Military capability

Bk Mobilization

The general process of marshalling, or assembling and organizing personnel and materiel resources, usually in response to some form of national emergency.

Bka Manpower mobilization

Bkc Industrial mobilization

Assembling and organizing the civilian industrial capability of the nation for the production of warfighting materiel for and the support of wartime goals.

Bke Civilian mobilization

Assembling and organizing civilian personnel, either for assignment to wartime occupations, or for entry into the various military Services, reserve and support units.

Bkg Mobilization planning

Comprehensive planning process considering types and numbers of forces to be mobilized, as well as time frames, depending upon the level of perceived threat and national policy.

Bm Force structure

Number, size, and composition of units that make up the total force of military personnel, either for a given Service or for the entire DoD; includes active duty, inactive duty, and reserve forces of all classifications.

Bmc Active-reserve mix

The ratio of active duty military to reserve military considered to be necessary to support the nation in various levels of warfighting activity or preparedness.

Bme Combat-support mix

The ratio of manpower assigned to support functions in relation to the number of personnel assigned to combat duty; control of this ratio is important to satisfactory manpower utilization.

Bmg Military-civilian mix

The ratio of military personnel to civilian personnel in a given manpower pool, agency or installation.

Bmi Officer-enlisted mix

The ratio of officer personnel to enlisted personnel, usually stated in terms of a specific military force structure, e.g., the officer- enlisted mix in the submarine Navy.

Bmk Volunteer force

A military force composed of individuals who volunteered for service, as opposed to a conscripted (drafted) military force.

Bmm Aging workforce

Refers to the tendency for the average age of the work force in general to increase over time, due to increasing life spans; i.e., individuals are remaining in the workforce for longer time periods, with implications for deferred retirement.

Bmo Grade distribution

The numbers of personnel assigned to various grades or ranks within a military or civilian personnel structure relative to the total force.

Bmq Occupational / career mix

For any given force structure, the relative frequency of occurrence of various occupations considered important to successful performance of the mission; e.g., the number of engineers in a manpower pool used to man ships.

Bms Personnel quality

A measure of the degree to which available personnel fulfill qualitative and quantitative requirements for particular assignments.

Bmsc Skill reduction

A broad program involving system and job design and redesign to reduce the requirement for advanced personnel skills in high-technology occupational areas.

Bmse Skill deficiency

Personnel deficiency in certain skills required for particular assignments.

Bo Manpower availability factors

Various economic, demographic, political, social and cultural factors which influence the numbers and availability of personnel for service with the armed forces.

Boc Economic factors Those economic factors, such as economic growth, amount of inflation, cost of living, etc., which influence the level of available manpower generally, or in specific occupational areas or age groups.

Boe Labor market conditions

Employment conditions in the private sector, usually given by geographic area, which indicate whether a given labor market is expanding (hiring) or contracting (laying-off).

Bog Political trends

Trends in political philosophy and value systems which, in turn, influence the numbers, qualities, availabilities, attitudes and receptivity of various demographic groups toward service in the military.

Boi Cultural trends

Changes in what is believed to be valuable, ethical or acceptable behavior by the nation at large relative to work in general and to service in the armed forces; the "operating" rules of behavior at a point in time.

Bok Social trends / changes

Changes in (perception of) such factors as individual relations, group relations, race relations, attitudes toward women, social institutions, social pressures, norms and beliefs.

Bom Technological trends

Technological advancements in areas which are incorporated into the design of civilian and military systems, and which impact manpower skills and competencies required to utilize it; i.e., technological impact.

Bq Manpower data

Various forms of data which are collected, stored, processed or made available to manpower specialists for use in performing manpower planning and management functions.

Bqc Biographical data

Manpower data including age, gender, ethnic background, education, work experience, family background, places of residence, etc.

Bqe Geographic data

Data which is organized and reported on the basis of various geographic designations or regions; e.g., urban, rural, North, South, East, West, center city, suburbs, mountains, plains, etc.

Bqea Regional data

BqgCensus dataData which are extracted from the U.S. Bureau of Census databases.

Bqi Demographic projections

Projections concerning trends in population, including size, density, geographic distribution, age distribution, birth rate, mobility, changing population centers, educational levels, etc.

Bqia Population projections

Bqk Post-service employment

Absorption of military personnel released or discharged from active duty into civilian employment areas or occupational specialties.

RECRUITMENT

C RECRUITMENT

Process involving developing requirements and strategies for recruiting military personnel; managing those strategies to obtain the required numbers/types of personnel; includes assessing cost effectiveness of the recruiting system.

Cc Recruitment policies

Policies established by Congress, the Executive Office and the Department of Defense concerning numbers of personnel authorized for the armed forces (end strength), and provisions for inducements and guarantees.

Ccc Recruiting quotas Numbers of recruits desired to be recruited from various geographic areas (recruiting districts) or racial/ethnic groups; provides targets for recruiters.

Ce Recruitment standards

Qualitative standards which must be met by a prospective enlistee to qualify for service; e.g., age, physical condition, education, mental ability.

Cea Enlistment standards

Cg Recruitment strategies Strategies designed to be maximally effective in persuading candidates with specific qualifications to enlist in an armed Service, and which consider current demographics, social and economic climates.

Cgc Recruitment advertising

Multimedia programs sponsored by all the armed forces with professionally developed themes and presentations considered attractive to the age group and need hierarchies of enlistable populations.

Cgcc Promotional programs

Programs which promote a particular theme or inducement which are usually tailored to a particular recruiting district (geographic area) or type of candidate (e.g., travel and adventure, specialized high-tech training, etc.)

Cge Recruit profiling

Profiles developed on potential enlistable populations; useful in developing recruiting strategies/programs; e.g., hobbies, education level, substance abuse percentages, educational aspirations, marital status, etc.

Cgg Recruit counseling

Counseling provided by recruiters at recruiting centers, and later at recruit training commands, pertaining to particular career paths and options which are open to a recruit based upon background, education, and aptitude.

RECRUITMENT 7

Cgi Enlistment incentives

Inducements for enlisting in an armed Service at a particular time, such as delayed entry, school guarantees, "buddy" enlistments, homeport of choice, etc., and made a part of the enlistment contract.

Cgia Enlistment guarantees

Cgia Enlistment options

Cgia Recruiting incentives / inducements

Cgic School guarantees

Guarantees of a seat in a particular school of the enlistee's choice as a reward for enlisting; assumes enlistee can meet all conditions and requirements for entry into that school and the associated job specialty.

Cgie Location guarantees

Guarantees concerning the geographic location of the enlistee's first permanent duty station; could be a home port in the instance of shipboard duty, or a city or geographic area in the instance of shore duty.

Cgig Delayed entry program

A strategy for distributing enlistments across the calendar year by delaying entry of recent high school graduates from May or June to October or November; allows the enlistee a "summer off" before reporting for recruit training.

Cgii Scholarships

The inducement of a scholarship at a particular college or university offered a potential enlistee for enlisting, or for completion of a particular enlistment period.

Cgk Selective service

That function of the military Services responsible for implementing a national Selective Service law through registration and conscription of qualified individuals according to military need.

Cgka Conscription

Cgka Draft

Ci Enlistment decision

The decision by a potential enlistee to enlist in a particular armed Service.

Cic Recruit influencing factors

Factors which weigh in a candidate's decision as to whether or not to enlist in a military Service; includes aspirations, attitude toward military, social needs, parental attitudes and guidance, job opportunities, etc.

Ck Recruit screening

A continuing process of screening recruits prior to and following enlistment on such factors as psychological adjustment, health, drug use, aptitudes, interests, and capabilities.

Ckc Security screening

Identification of any personal experiences, attitudes or particular behavioral tendencies which might render a given enlistee a national security risk.

8 RECRUITMENT

Ckca Background investigations

Cke Drug use history

Personnel history obtained before enlistment regarding type of drugs used (if any), manner of use (experimental), frequency, and elapsed time since last use (with further testing and screening at recruit training command).

Cm Recruiter management

Personnel management procedures involved in the selection, training, placement, and evaluation of recruiter personnel.

Cmc Recruiter selection

Development and validation of instruments and procedures for identifying and selecting potentially successful recruiter personnel.

Cme Recruiter training

Development of training requirements, curricula, and instructional materials and the delivery of instruction directed toward developing and enhancing recruiter proficiency.

Cmg Recruiter distribution

Placement of recruiters in specific recruiting districts (geographic areas) based upon factors found to be predictive of future success; e.g., recruiter's home town or state.

Cmga Recruiter placement

Cmi Recruiter evaluation

The procedure of assessing the performance of a given recruiter in the district assigned according to established criteria.

Cmic Recruiter effectiveness

A measure of the degree to which a recruiter fulfills his/her quota for a given period with due regard for the number of personnel lost to attrition in recruit training, and, later, due to lapses and oversights by the recruiter.

Co Recruiting stations

Pertains to the number and location of recruiting stations, as suggested by the recruiting strategy and plan, for a given recruiting district (includes number of recruiters to be assigned to a given station).

Cq Recruitment evaluation

Overall process of assessing the effectiveness of a recruiting strategy and plan for a given district, a given armed Service, or all armed Services.

Cqc Recruit quality

Degree to which enlistees recruited fulfill qualitative and quantitative requirements for accessions; e.g., age, education level, minority status, cognitive ability, adjustment to society, etc.

Cqcc High-quality recruits

Recruits who have no drug history or juvenile problems with the law, are high school graduates, and score in Categories I, II, or perhaps IIIa on the ASVAB.

Cqe Recruiting effectiveness

The degree to which national and regional recruiting strategies, plans, procedures, personnel, and management were successful in meeting recruiting objectives relative to the costs involved.

Cqea Recruiting success

Cqg Recruitment costs

Total cost of recruiting a given number of enlistees, including costs of advertising, space rental, testing, recruiter costs, inducement costs, costs of later medical or educational remediation, etc.

Cqga Cost-per-individual recruited

Cs Recruitment data

Various data collected by recruiters or their supervisors on the recruitment process and its effectiveness.

Cu Enlistment data

Detailed descriptive and profile information on enlistees according to recruiting district; used in assessing adequacy of plans, programs and performance of recruiters.

Cuc Enlistment rates

Ratio of number of candidates enlisted to the total number of candidates contacted by recruiters; provides one measure of recruiting effectiveness.

Cuca Accession rates

Cw Recruitment systems

Computer-based recruiting management and reporting systems which provide timely data to manpower planners and the recruit command hierarchy on various data sets critical to conduct of recruiting operations.

Cwc Recruiting information systems

Computer-based system designed to provide salient and timely information to recruitment planners and to the recruiting community; e.g., quotas, level of fulfillment, adjusted requirements for various job specialties, etc.

Cwe Computerized guarantee systems

A system which provides essentially real-time information on available school seats and allows specific seats to be reserved for enlistees by a specific recruiter; eliminates over-committing school seats.

SELECTION / CLASSIFICATION / ASSIGNMENT

SELECTION / CLASSIFICATION / ASSIGNMENT

Assessing physical/mental capabilities of candidates against established standards, classifying them according to capabilities, assigning them to occupational specialties considering interests, capabilities and military need.

Db Personnel accessions

D

Recruited individuals administratively processed for duty in the armed forces through the stages of selection, classification, and initial assignment.

Dbc Lateral entry The transfer of personnel accessions from a specific civilian occupation to an equivalent military one.

Dc Personnel selection

The process of selecting among the individuals who have volunteered for duty in the armed Services those individuals who are qualified for service.

Dca Hiring practices

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Dcc Selection criteria

Levels of performance, as measured by various types of assessment instruments, which must be met for an individual to be qualified for service and for certain training or assignment options.

Dcca Selection standards

Dccc Veterans preference

A preferential advantage allowed to military veterans in the job selection process.

Dce Selection strategies

Strategies involved in selection decision making, including ethnic equity, demographic criteria, noncognitive considerations, equal employment opportunity, low-level aptitudes, service requirements and expectations, etc.

Dcg Selection systems

Computer-assisted occupational selection systems which consider selection strategies, decision formulations, evaluation information, etc.

De Personnel classification

A process by which an individual's skills, capabilities, aptitudes, and interests are measured, categorized, and considered in assigning a given individual to a job specialty (which also considers the needs of the Service).

Dec Classification strategies

Approaches to classification which involve primary and secondary factors to meet certain service expectations; e.g., use of all aptitude levels, career progression, physical characteristics, biographic criteria, etc.

Decc Classification standards Qualitative and quantitative standards used in the personnel classification process.

Dee Military classification codes

Codes which are assigned to various Military Occupational Specialties (MOS) for use in classifying individuals and assigning them to jobs with similar codes.

Deec Air Force Specialty Codes Codes composed of digits, or digits and letters, used to identify a given Air Force Specialty (AFS); e.g., AFSC 43250, Jet Engine Mechanic, or AFSC 1816, Missile Operations Staff Officer.

Deeca AFSC

Deee Military Occupational Specialties Military job categories and their representative codes used in the U.S. Army and U.S. Marine Corps.

Deeea MOS

Deeg Navy Enlisted Classifications Four-digit numbers which indicate individuals' skills, qualifications, and aptitudes, and which have primary and secondary code numbers (rating) which indicate additional qualifications.

Deega NEC

Deg Classification evaluation Follow-up evaluation of the classification process to ascertain the extent to which the individual(s) assigned were, indeed, able to fulfill the job requirements as specified by the classification system.

Dg Personnel assignment That process which considers the skills and abilities of individuals and assigns them to positions for which they are considered to be qualified.

Dgc Assignment strategies Assignment decision-making based on multi-attribute models which consider numerous variables in addition to job relationship; e.g., need for PCS, gender, remaining obligated service (EAOS), location of current tour, etc.

Dgcc Assignment / reassignment systems Systems which facilitate the job assignment process by listing positions available for which the individual in process is qualified.

Dgcca Assignment programs Programs, usually computer-based, which provide for assignment based on multi-attribute assignment models.

Dgccc Computerized assignment systems

A computerized system which compares a given individual's qualifications with the requirements of various available jobs to find a reasonable match of available skills to available job requirements.

Dgce Person-job matching

The process of matching personnel qualifications to job requirements.

Dge Initial assignment

That assignment a Service individual receives upon graduation from recruit training.

Dgg Specialty assignment

Involves assignment to special programs with skills not currently identified in existing ratings; e.g., food management teams; police detachments; Blue Angels; SEAL teams; EOD teams.

Dgi Assignment rotation

(Navy) Rotation among sea, shore, and neutral duty designations based on the planned rotation date (PRD), with tour lengths approximating 3 years; women rotate between OUTUS (Outside the U.S.) and CONUS (Continental U.S.).

Di Selection / classification / assignment data

A body of data and databases which contain individual descriptive information and the circumstances surrounding administrative actions taken during the selection, classification, and assignment process.

Dk Reenlistment data

Data on individuals who reenlisted, including pay grade and occupational specialty, years-of-service, reenlistment incentives (if any), command which administered the oath, term of reenlistment, etc.

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EDUCATION AND TRAINING

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EDUCATION AND TRAINING

Development of training requirements and training needs; development and test of instructional technology to fulfill those needs; management of training; and the evaluation of training effectiveness.

Eb Training types

Various types or classes of training which may be job skills-oriented or position-oriented and which may vary in instructional approach, objectives, and specific technology applied.

Ebc Basic training

Initial training provided to new recruits (i.e., "boot" camp) where the primary objective is to transition the recruit from civilian life to military life (e.g., military procedures, traditions, rules, and expectations).

Ebca Initial entry training

Ebd Officer training

Training provided to individuals who will soon assume the duties of a commissioned officer in the armed forces.

Ebdc Officer candidate training

Training provided in officer candidate schools or in the Reserve Officer Training Corps (ROTC) to individuals who at some point may assume the duties of a commissioned officer in the armed forces.

Ebdca ROTC

Ebe Intelligence training

• Training provided to individuals who will perform jobs devoted to collecting, processing, interpreting and reporting information concerning philosophies, strategies, capabilities, and intent of potential adversary forces.

Ebg Combat training Training provided to individuals or units on the tactics, skills and attitudes deemed important to successful confrontation with an adversary.

Ebh Weapon system training

Equipment-specific training on the operation and maintenance of a particular weapon system.

Ebj Flight training

Training devoted to learning to operate a fixed or rotary wing aircraft for various missions using various types of equipment and tactics so as to achieve required proficiency levels.

Ebjc Undergraduate pilot training

Primary flight training in which the student pilot is taught the basics of controlling an aircraft through such maneuvers as take-off and landing, basic flight maneuvers, and navigation and communication.

Ebk Armored vehicle training

Training devoted to operating, maneuvering, and fighting an armored vehicle; may also include certain types of service and preventive maintenance functions.

Ebka Tank training

Ebm Readiness training / exercises

Training exercises devoted to enhancing a military unit's proficiency in performing its designated warfare mission.

Ebmc Field exercises

Designed to be held in an actual field environment providing for highly relevant exercise of such battle functions as reconnaissance, offensive/defensive positioning, force coordination, and battle with an aggressor force.

Ebme Mobilization exercises Exercises which train a particular reserve force in the actions and procedures for assembling quickly and efficiently in time of national emergency where reserve forces are called-up.

Ebmg Command post exercises

Exercises in which a command staff are provided training in information processing, strategy development and implementation, decision making under time stress, and response to unforseen circumstances in force command.

Ebmi Fleet exercises

Exercises which allow for various fleet units performing various fleet missions (AAW, ASW, AUSW) to maneuver and to coordinate according to a particular operational plan, and to assess and improve quality of performance.

Ebn Shore-based training

(Navy) Training which is provided at shore installations, as opposed to shipboard training.

Ebo On-site training

Training provided at the site, location, unit where the tasks or behaviors to be trained are operationally performed.

Eboa On-board training

Ebq Shipboard training (Navy) Training delivered on board ship, either while the ship is at dockside or at sea.

Ebr Basic skills training

Typically, training for minimum proficiency in reading, writing and numerical operations.

Ebrc Remedial training

Specialized training designed to overcome a particular skill deficiency (e.g., remedial reading training).

Ebs Technical skills training

Training devoted to teaching specific skills or abilities required for competence in a particular job or job family.

Ebu Maintenance training

Training usually specific to particular equipment, or equipment group, concerning functional relationships, preventive maintenance, troubleshooting, and corrective maintenance.

Ebv Job skills training Training which focuses on the specific skills required by a particular job.

Ebvc Skill maintenance training

Training provided to overcome the effects of lack of practice, or lack of opportunity to perform job tasks to maintain proficiency level.

Ebvca Refresher training

Ebve Skill enhancement training Training devoted to improving proficiency on a specific job skill or set of skills; a highly focused, specialized training initiative.

Ebx Personal improvement / social training Training in interpersonal relations, sensitivity to others, time management; concerns skills and abilities

which are important, but usually are peripheral to primary job requirements.

Ebxc Equal Employment Opportunity training

Instruction provided on the philosophy, rules, regulations, and grievance procedures established by the Equal Employment Opportunity Commission to protect against race, sex, or religious discrimination.

Eby Orientation training

A course of training usually provided to recent assignees to familiarize them with the procedures, rules, and operating expectations of the particular job or organizational unit.

Ed Instructional system development

A process and philosophy of instructional development based on the systems development context and defined by the interservice procedures and model contained in NAVEDTRA 106A.

Eda ISD

Edc Instructional theory

Theory of human learning applied to conditions and circumstances of developing instructional strategies, materials, and delivery modes for military training.

Edcc Instructional strategies

Various combinations of instructional approach, presentation media, level of individualization, pace, level of feedback, and level of interaction deemed cost effective for a given set of learning objectives.

Edccc Practice effects / intervals

Effects upon learning obtained by varying the number of trials in a given exercise set and/or the time interval between sets.

Edcce Training sequence

The specific sequence or order of training steps or instructional phases.

Ede Training requirements

Assessment of any differences between required job performance levels and available personnel capabilities, translated into training needs.

Edea	Instructional deficiency
Edea	Training goals / standards
Edea	Training needs
Edea	Training problem assessment
Edg	Instructional design

The technology associated with identifying instructional requirements and designing systems, using current instructional technology to fulfill training needs within acceptable cost levels.

Edgc Training design factors

Those factors which may influence the probability of success of a particular system of instruction in meeting established needs.

Edge Curriculum development

Development of a formalized course of study (learning or instructional plan) based upon topics, subject matter areas, level of emphasis, and sequence judged to be responsive to an identified set of instructional needs.

Edgea Course design

Edgg Courseware development

The design, development and tryout of instructional materials intended to fulfill specific instructional needs.

Edgi Student-instructor ratios Ratio of students to instructors, usually within a lecture or demonstration form of instruction.

Edgk Training environment

Physical surround within which training is provided, including ambient noise, temperature, seating, level of illumination, etc., with consideration for physical factors which can influence a student's ability/readiness to learn.

Edi Training feedback The type and degree of reporting of results that is provided to trainees during a training episode.

Edia After-action reviews

Edia Debriefings

Edk Transfer of training

Degree to which proficiency (skills/abilities) gained through training on one task or set of tasks can be transferred to another, similar, task, or set of tasks, without additional (or as much) training.

Edm Generalizability of training

The degree to which instruction developed for a task, or set of tasks, can be generalized to another task, or set of tasks, to produce the desired performance levels with minimum revision of training content.

Ef Training equipment development

Process of developing requirements, instructional approaches, training strategies, and student/equipment interface designs for developing specifications for training aids and equipment.

Efa Training device development

Efc Training equipment procurement / acquisition

The use of training equipment development and support specifications, solicitation of contractor support, and oversight of the procurement process, including test and evaluation.

Eh Instructional approaches / methods

Various and alternative uses of media, methods, instructors, and training environments to impart learning consistent with extant conditions and requirements.

Ehb Pretraining preparation

A measure of the various educational and other conditions that exist for potential trainees prior to their training in a particular area.

Ehba Student preparation

Ehc Classroom instruction Instruction provided in the formalized environment of a classroom; i.e., students in formal array being lectured by an instructor/trainer.

Ehca Lecture instruction

Ehd Peer instruction

Instruction provided an individual at essentially the same level of proficiency as the trainee; i.e., trainees instructing one another.

Ehe Tutoring

Use of a second party (individual or computer) with an acceptable level of expertise to provide one-on-one instruction to an individual.

Ehg Individualized instruction Instruction tailored to the capability and level of progress demonstrated by the performance of an individual student; pace and difficulty level are controlled by individual's readiness to proceed.

Ehga Learner-centered instruction

Ehga Self-paced instruction

Ehh Programmed instruction

Form of instruction in which the learning content is arranged in sequential (linear) steps, or stages, leading to a specific course learning objective; involves self-assessment and branching paths based on level of performance.

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Ehi Group training

Training provided in which required performance levels depend upon the joint proficiency of two or more individuals.

Ehia Team training

Ehic Unit training

Training provided to a particular group assigned as an operational working unit; e.g., combat units, such as squads, platoons, wings.

Ehica Crew training

Ehj Job-based training

Formalized instruction provided within the context of the job for which training is being provided; competency training on the job which does not seriously compromise output.

Ehja Hands-on training

Ehja On-the-job training

Ehl Interactive training

Training in which the trainee interacts with a second party (individual or computer), which has the capacity to adapt subsequent presentations to the trainee's previous responses.

Ehm Apprentice training

Training organized according to the traditional craftsman proficiency levels of apprentice, journeyman, and master craftsman; i.e., the first of three competency levels.

Ehn Multimedia training

An instructional approach which involves the joint use of several presentation media (e.g., lecture, slide presentation, VCR presentation, movies).

Eho Part-task training

Training provided on a specific task element, or set of elements, which have been extracted from what is typically a critical task, and given specific emphasis in training.

Ehp Embedded training A special instructional facility built into operational systems or equipment to permit its use for training.

Ehq Distance learning

Training which is delivered to a geographic point remote from the point of instructional generation, course administration, and management (e.g., instruction using closed-circuit television, or correspondence courses).

Ehqc Teletraining

Those forms of distance learning/training which involve the use of an electronic telecommunications medium.

Ehr Behavior modification

Application of operant conditioning theory and associated techniques in a therapeutic approach aimed at suppressing or extinguishing unwanted or maladaptive behaviors.

Eht Live equipment training

Instruction provided (usually at higher cost) which uses the actual, prime equipment as an aid to facilitate training.

Ehta Live-fire training

Ehv Retraining

Additional training which is necessary due to deterioration of previously learned or trained skills and abilities in order to regain the level of proficiency currently required by job.

Ehx Accelerated teaching techniques

Techniques or procedures designed to deliver a faster rate of learning (time to reach criterion) for particular types of students under specified conditions for particular instructional topics.

Ej Computer applications in training

Use of computer technology to deliver, adapt, administer, manage, support, mediate, aid or otherwise control a system of instruction with respect to students, instructors and administrators.

Ejc Computer-aided instruction

Use of some type of computer to aid the process of imparting learning through interaction with the student(s), or to support training administration and management.

Ejca	CAI
Ejca	СМІ
Ejca	Computer-aided interactive training
Ejca	Computer-based instruction
Ejca	Computer-integrated instruction
Ejca	ICW
Ejca	Interactive courseware
Ejca	PLATO

Eje Computer-based maintenance training A system of training in which a computer provides fault and technical information to support maintenance troubleshooting as required, and provides feedback of results to trainee.

Ejg Tutorial dialog

A process in which a computer is used to simulate the interaction between a trainee and a tutor with a specified level of expertise; aids in the design of one-on-one interactive training software.

Eji Adaptive instructional strategies

Strategies which alter the content or difficulty level of instruction as a function of the speed and type of progress demonstrated by the trainee.

Ejk Automated instructor functions

Computerized traditional instructor functions, such as determining sequence of content, presentation of aiding materials, progress testing, etc.

Ejm Computer-aided feedback

Systems in which a computer is used to give immediate feedback regarding the effect or outcome of a particular trainee response; used to facilitate training effectiveness.

El Training aids

A general category of materials, devices, and documentation which are intended to aid in the process of imparting learning.

Ela Instructional materials

Ela Training guidelines

Ela Training materials

Ela Training support materials

Elc Textbooks

Formal instructional documents which usually include the philosophy, principles, rules, and research findings for a particular technical subject and which generally may be considered as an expert source of knowledge.

Ele Training manuals Instructional documents which include rules, principles, relationships, guidelines and explanations necessary to achieve competency in a particular task, set of tasks, or job.

Elg Training packages Composite training aids which include instructional materials specific to a given job task or function.

Elga Course of study

Elga Curriculum packages

Eli Workbooks

Training aids which usually provide for interaction with the student through his/her completion of practical problems or exercises designed to develop a particular skill or knowledge.

Elk Skill development aids Instructional devices or materials designed to develop or enhance proficiency in a particular skill area.

Elm Self-study aids

Instructional aids designed for use by an individual student to develop proficiency in a particular subject area; requires minimum (or no) 3rd-party interaction.

Elo Games

Live, "game"-oriented exercises (small-scale, usually involving only one trainee or one trainee class), or computerized games used for training purposes.

Eloc Computer games

Software packages designed to run on a particular computer, which exercise a trainee in a particular knowledge or skill area as a means for upgrading performance.

Eloca Video games

Elq Instructor materials

Materials which aid the instructor in performing his/her instructional function (e.g., topical outlines, reference materials, visual aids, student handouts, student evaluation forms, instructor evaluation forms, etc.)

Elqa Teacher's guides

Els Training aids / materials adaptation

The process of adapting aids and materials developed for one set of learning objectives to another, approximately similar, set of objectives, and assessing the degree of generalizability.

En Training devices

A broad class of devices used primarily to simulate a human-equipment interface, which usually closely approximates a job situation for the purpose of enhancing learning; does not include training simulation equipment.

Enc Trainers

Devices which simulate the physical relationships, and in some instances stimulus-response relationships, for a particular human-equipment system design (e.g., an aircraft cockpit trainer).

Ence Part-task trainers

Trainers which reproduce one or more critical task elements extracted from a major task for purposes of focusing training and optimizing training time and costs.

Ene Closed-circuit TV

TV monitors, used in a limited-locale/distribution mode for information presentation of specific events, processes, or procedures for the purpose of orientation, familiarization, or instruction.

Eng Weapon-firing training devices

Devices which reproduce the physical characteristics of a particular weapon, simulate aiming, tracking, and firing functions, and provide immediate feedback of results, usually at a savings in training costs.

Eni Instructor stations

Stations for one or more training devices which allow controlling of stimulus presentations to students and monitoring of student performance; provides for altering stimulus presentations as a function of student performance.

Ep Training simulators / simulation

Technology used to reproduce to a level of fidelity (usually resource constrained) the human-machine functions of a particular system for purposes of instruction; could also include simulation of environmental factors.

Epc Warfare simulators / simulation

Complex, computer-based simulators/simulation dedicated to the exercise of several operator positions with high-fidelity control-display relationships in the prosecution of targets for a specific warfare scenario.

Epcc Combat simulation

Real-life or computer-generated representation of friendly and adversary forces situated in a particular combat scenario, usually of limited scope.

Epcca Battle simulation

Epcca Battlefield simulation

Epcca Engagement simulation

Epcca Mission rehearsal

Epcca Tactical simulation

Epccc Live-fire simulation

Field exercise simulation of actual live-fire combat scenarios; usually associated with ground forces.

Epce Wargames

Usually large-scale battle scenarios staged as practice/training exercises, using opposing forces and strategies with actual warfare systems, equipment, and personnel in terrain representing a particular world geographic area.

Epcg Battle scenarios

Descriptions of the specific conditions of a battle exercise, including friendly and adversary forces, mission, disposition of forces, environmental factors, weather, and possibly geopolitical factors.

Epe Vehicle simulation

Usually a control-display simulation of the parameters of a particular vehicle, such as a tank, to provide training in vehicle control and maneuvering under various types of operating conditions.

Epg Weapon systems simulation

Use of computer technology and a physical representation of the weapon system to train personnel on various weapon system functions.

Eph Target simulation

Representation, with devices (actual or computer driven), of the signatures (visual or radar cross sections) of targets of specific threat levels, along with speed, maneuverability, stand-off distances, vulnerability, etc.

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Epi Flight simulation

Computer simulation of the flight dynamics of various types of fixed and rotary wing aircraft for various types of missions.

Epic Aircraft simulators

Simulators which reproduce the flight dynamics of specific aircraft under various operational conditions in specific areas of the flight envelope, with a cockpit environment and usually with 6 degrees of freedom of movement.

Epie Aircraft carrier landing simulation

Simulation which reproduces the visual conditions and glideslope tracking relationships of a angled-deck carrier to a carrier aircraft pilot during final approach and landing, using the Fresnel optical landing system.

Epk Maintenance trainers / simulators

Typically, computer-based equipment which simulates the electro-mechanical properties of specified equipment along with various types of failure indications to provide training in fault detection, isolation and repair.

Epm Sensor system simulation

Simulation which reproduces the display characteristics of various types of sensor systems; used mainly to training operators in pattern recognition tasks.

Epmc Electro-optical sensor simulators

Equipment which simulates the visual display characteristics of such sensors as FLIR and LLLTV for specified types of targets under specified environmental conditions.

Epme Acoustic sensor simulators

Equipment which simulates the aural display characteristics of various passive sonar systems for specific targets and target groups; used to train operators in acoustic signal discrimination, target detection, and classification.

Epo Motion simulation / simulators

Simulation of the motion dynamics of various types of vehicles under various operational and environmental conditions, typically to investigate the influence of such conditions on human performance.

Epq Platform control simulation

Simulation of the motion dynamics of various types of platforms (ships, aircraft, vehicles) for specified operations and environmental conditions to train operators in platform control.

Epqc Bridge control simulators

Simulation equipment which provides a dynamic visual presentation through forward bridge windows of the relation of own-ship's position to land masses, other ships, buoys, check points, etc.; used for ship control training.

Epqe Navigation trainers

A device which allows for integration of navigational information derived from several sources (celestial, satellite, inertial, radio, visual) to determine and plot over time own-ship's (or other's) position.

Eps Damage control simulation

Simulation of ship compartment flooding and various types of fires, which provides direct practice in bulkhead shoring, flooding control, fire fighting, and lifesaving procedures.

Epsc Fire fighting trainers / simulators

A simulated aircraft fuselage or ship's compartment within which various types of fires can be set, providing training in fire fighting techniques and practices and use of life support devices.

Epu Environment simulation

Simulation of environmental factors such as heat, smoke, illumination level, motion, vibration, and atmospheric pressure as a means for training, human performance measurement, and testing manmachine hardware designs.

Epua Dome simulators

Epw Scene generators / simulators

Optical and projection devices which can generate high-fidelity, dynamic presentations of airborne, waterborne or ground-based environments.

Epwc Terrain travel simulation

Simulation of vehicle movement (tank or aircraft) across the "terrain" of a scaled topographic surface, used in conjunction with a video camera which can be computer-driven in X-Y coordinates.

Epwca Dynamic terrain

Epx Networked simulation

Simulation employing a "network" of separate simulators, or simulated elements, linked together through various electronic and communications modes.

Epxa Linked simulators

Epxa SIMNET

Epxa Simulation networking

Epy Virtual reality

Synthetic environment, or simulated space, created through real-time technology which uses graphical display, sound and electromagnetic position-and-orientation sensors; subjects directly interact as though in a real environment.

Epya Cyberspace

Epya Virtual environment

Epya Virtual perception

Epyc Data glove

A sensor-equipped glove which renders the user's own hand visible in a graphical (virtual) space, thus enabling him to pick up objects there and manipulate them.

Eq Training facilities

Physical facilities used to deliver various types of training.

Eqc Training ranges Large, open-space physical facilities used for weapons delivery and maneuvering training, either air or land-based.

Eqe Training bases / centers Large shore-based training facilities which could contain several smaller training commands (such as the Naval Training Center, Great Lakes).

Eqg Service schools Various shore-based schools supported by the Services within which various types of formalized technical training is provided.

Eqgc Class "A" schools Basic technical training schools in specialized areas such as electronics, communications, hull maintenance, mess management, etc.

Eqge Class "C" schools Schools in which advanced technical training is provided, usually within a "systems" context, such as in combat systems or missile systems.

Eqi Civilian schools Schools supported by the private sector and attended by either civilians or military personnel.

Eqic High schools Four-year civilian institutions usually containing freshman (9th grade) through senior (12th grade) years of schooling.

Eqie Colleges / universities Private or public institutions which offer two or four-year (or more) courses of study and grant AA, BS(A) or advanced academic degrees.

Eqiea Four-year colleges

Eqiea Two-year colleges

Eqig Vocational schools Private schools which provide specialized training in certain vocational areas to prepare students for jobs in that area, such as computer programming, truck driving, electronics, drafting, etc.

Eqiga Technical schools

Eqiga Trade schools

Es

Educational programs

Programs containing general courses of study leading to a level of proficiency associated with a particular knowledge area.

Esc Professional development / education

Formal programs of academic study designed to qualify the student at a particular level of professional excellence (e.g., advanced academic degrees).

Ese Medical education programs

Programs sponsored by the military services which provide for training medical personnel, including physicians, nurses, and medical technicians; requires commitment of 4-6 years of active duty following graduation.

Esg Engineering education programs

Programs which focus on coursework necessary for success in the engineering sciences, such as math, physics, mechanics, fluid dynamics, aerodynamics, structural dynamics, etc.

Esi Civilian education programs

Programs which allow civil service personnel to extend their realm of knowledge and expertise in specialized areas of formal study.

Esk Veterans education programs

Programs designed to provide veterans with the knowledge, skills and abilities to be successful in the civilian labor market.

Esm Correspondence courses

Programs which provide for individuals to complete coursework in specific areas through home study.

Eu Training management

General area of determining training needs, developing instructional capability within cost constraints, planning and scheduling training according to resources available and delivering and administering the training.

Euc Training planning / administration

Developing training plans based upon required training intervals, numbers to be trained, available training equipment and resources, and monitoring the delivery of training so as to react promptly to unforseen events.

Eucc Training policies

Official positions relative to such questions as course completion standards, performance criteria, training remediation, missed training, make-up provisions, student appeals, instructor evaluations, etc.

Euce Training schedules

Time- and event-based schedules which show training units (individuals, classes, groups, teams) progressing through various training modules with specific notation of a unit's progress status at a particular time.

Eucg Training resources

Generally includes all classes of resources (cost, availability, etc.) necessary to fulfill a training mission; e.g., instructional development, materials, facilities, equipment (including maintenance), instructors, billeting, etc.

Euci Training systems maintenance

Maintenance of training systems by various means, including updating of training curricula, materials, manuals, schedules, etc.

Eue Computer-based training management

A computerized system based on a wide variety of training information,

including students, instructors, equipment use times, schedules, student progress, etc., for use in management and administration of training programs.

Eug Training attrition factors

Factors which cause student attrition from a training program, such as academic failure, behavioral maladjustment, administrative action, breach of a policy or rule, insufficient funding, etc.

Eui Alternative training methods

Various possible approaches for providing the instruction required to meet a particular requirement, appraised against such criteria as time, costs, and level of proficiency attained.

Ew Training evaluation

A determination of the relative gain in proficiency realized by particular training strategies, devices, or equipment relative to on-job performance requirements and costs.

Ewc Training evaluation methods

Various types of systems which allow for interim and final evaluation of attained performance levels relative to standards of performance considered acceptable for success on the job.

Ewe Training evaluation criteria

Standards of performance established for interim and final training evaluation which are considered valid measures of required levels of actual job performance. (Also includes academic attrition during the program.)

Ewg Instructional methods evaluation

Evaluation of instructional methods relative to such criteria as learning time, retention, transfer of training, persistence, costs, trainer and trainee preference and acceptance, etc.

Ewi Curriculum evaluation

Evaluation of course content in a curriculum and level of mastery demanded relative to job task requirements and associated performance levels.

Ewk Training effectiveness assessment

Assessment of the gain in performance relative to the investment in training time and costs. (Note also importance of meeting training objectives and relation of such objectives to successful on-job performance.)

Ewkc Training performance prediction

Use of various types of indicators found to predict certain aspects of trainee performance; e.g., attrition, class position, time to reach or complete a particular criterion of performance, areas of potential weakness, etc.

Ewke Training success factors

Factors and conditions which typically contribute to student achievement of course objectives; e.g., student-paced instruction, use of feedback of results, low student-instructor ratio, instruction tailored to student needs, etc.

Ewkg Training performance payoff

Gain in performance or subject mastery for a particular investment in training time and resources.

Ewki Instructor effectiveness

Instructor success in a particular type of training, as judged in relation to various criteria and factors (media, aids and devices, etc.)

Ewkk Training device effectiveness

Performance gain per unit time of instruction compared to the costs incurred in procuring and operating a particular training device. (Also could include comparison with other instructional approach options.)

Ewkm Training aids / materials effectiveness

Gain in reduced learning time or proficiency in knowledge or skill per unit of instruction using certain aids or materials in relation to the costs of acquiring/using them; Could include comparison with other aid/material options.

Ewko Student-equipment ratios

Ratio of number of students to number of training devices available in a given time period; involves simultaneous use (sharing) of equipment, and impacts upon a cost-effective balance between training time, trainee performance, cost.

Ex Training data

Data collected on students during training including time to reach various criteria, number and type of attributes, scores on interim and final examinations, and student score normative distributions, to facilitate future planning.

Exc Training databases

Computerized databases which include various types of training data which may be statistically analyzed and cast in various data formats to provide insights for training assessment and guidance for future instructional management.

Exe Training performance data

Data which typically contrast student performance on job-relevant tasks or knowledge tests prior to training with that achieved following training as a means for assessing the value of training or readiness to assume job duties.

HUMAN RESOURCES MANAGEMENT

HUMAN RESOURCES MANAGEMENT

The analysis of jobs, development of career paths and occupational structures supported by compensation, and benefits programs; assessing occupational effectiveness; managing personnel.

Fc Career development

F

Process of identifying personnel needs, assessing available personnel resources in terms of abilities and aspirations, and developing those resources through individual and organizational commitment to fill needs.

Fcc Career development systems / programs

Programs which have specific objectives in career development, with either short-term or long-term goals.

Fccc Military career development programs

Career programs based on a particular military specialty for either officer or enlisted and usually involving a 20-year commitment within the structure provided by officer and enlisted job codes.

Fcce Civilian career development programs

Career programs for developing civil service personnel through various long-term, short-term education and training programs with career progression goals at the GS-13, 14, 15 levels.

Fce Career planning

Analysis of individual interests and capabilities compared to career options, projected needs, and opportunities; results in a specific action plan with strategies to achieve career objectives; includes career monitoring adjustment.

Fcec Career goals

Short-term, mid-term and long-term objectives involving enabling training and experiences leading to specific career progression targets outlined in an individual career plan.

Fcee Career choice factors

Included are individual capability, interests, aspirations, projected demand for a particular occupational specialty, developmental time required, types of training/experience needed, types of support/ funding available.

Fceg Career promotion channels

Paths defined during career planning, usually in terms of organizational structure, which outline projected routes to various career development milestones and associated strategies for achieving them.

Fcega Career ladders

Fcega Career paths

Fcei Skill obsolescence

Diminished demand for certain skills due to technological advances in general, or to organizational changes which reduce or eliminate need for a particular speciality.

Fcg Career management

A management responsibility in career development which involves providing timely and relevant information to employees and supporting career development programs with mentoring and administration.

Fcgc Promotion

Progression in a career structure to a position of greater responsibility and, presumably, more money; a lateral career move that bypasses a blocked career path might also be perceived as a promotion.

Fcge Career monitoring / tracking

An important part of career management which provides for periodic review of career progress and consideration of different strategies.

Fcgg Career movement

Movement of individuals within their career paths in an organization; indication of the health of a career development system.

Fcgi Career area rotation

Rotation of individuals among two or more occupational specialties according to plan in order to enhance their capabilities and to improve opportunities for career progression.

Fcgk Career history

An individual's work history, especially tracking all jobs held, as well as general work performance, related to a particular career orientation.

Fci Individual career factors

Factors which relate to the individual's mental and emotional readiness to initiate and pursue a career development program.

Fcic Career motivation

A state of energy within the individual which causes him/her to strive toward goals of self-actualization and growth.

Fcie Career commitment

Commitment of an individual to the choice and development of his/her career; a necessary condition to a career development program which stresses willingness of the individual to fulfill his/her responsibilities.

Fcig Vocational interests

Individual preferences for activities or conditions which tend to identify or describe various recognized vocations; does not imply that the individual is qualified for those vocations.

Fck Career counseling

The process of assessing an individual's career capabilities and interests, comparing them with requirements of, and opportunities within, various careers, and making recommendations regarding how the individual should proceed.
Fcka Occupational counseling

Fcka Vocational counseling

Fckc Career counseling techniques

Use of interviews, interest and ability testing, and various publications providing job descriptions and requirements, to forecast future opportunities for purposes of making career recommendations.

Fcke Career counseling effectiveness

A measure of the degree to which the individual commits to a career development program, and the degree to which various enabling initiatives actually result in attainment of career objectives.

Fckg Career counseling evaluation

Quality assessment of a career counseling event or program through client interviews and follow-up of actual client progress.

Fcki Occupational information systems

Hardcopy and computer-based systems which include timely information on occupational functions and tasks, skill and knowledge requirements, and potential (e.g., Occupational Outlook Handbook, U.S. DoL).

Fcm Career opportunity

Future potential for various career and occupational specialities for use in career planning and counseling.

Fcmc Upward mobility

A measure of the degree to which qualified minority individuals have the opportunity to advance in a career structure without ethnic, racial, sex, or age biases.

Fe Personnel management

A broad employee management function within an organization, including recruiting, selection, placement, training, career development, wage and salary administration, benefits programs, performance evaluation, etc.

Fea Personnel administration

Personnel utilization

A measure of the degree to which an equilibrium has been achieved between available personnel resources (skills and numbers) and the current and projected needs of the organization for such resources.

Fecc Grade-skill imbalance

Fec

A circumstance existing when the skills required for a given grade within a particular job are greater than required for a higher grade (with more pay) in another job; i.e., less pay for greater skill and ability.

Fecca Occupational imbalance

Fece Grade / specialty substitution

Substituting one grade level or job speciality for another to fulfill a short-term requirement; job performance could suffer if job requirements of substituted job are compromised.

Fecea Grade / skill substitution

Fecg Personnel tradeoffs

Personnel allocation decisions that reflect limited resources and/or skill levels.

Fed Personnel system structure

The formal employment and administrative structure governing all personnel matters within an organization.

Feda	GS
Feda	General Schedule
Feda	PAC
Feda	Professional and Administrative Career
Feda	SES
Feda	Senior Executive Service

Fedc Merit systems / principles Personnel compensation systems and principles based upon individual merit or quality of job performance.

Fee Position manning

The number and type of personnel assigned to a particular position or set of positions based on skill/knowledge requirements, watch-standing requirements (watch, shift), work load, and assignable personnel resources available.

Feec Manning requirements Numbers and specific types of individuals considered necessary to man a job/system under all operational conditions.

Feeca Manning determination

Feeca Staffing requirements

Feecc Crew size

The number of individuals required to man a given crew, or the number currently comprising a crew.

Feee Manning effectiveness

A measure of the degree to which skills and numbers of personnel assigned to a particular job/system translate directly into overall system performance; i.e., system requirements are met without waste of personnel resources.

Feeg Staffing standards

Requirements interpreted as standards for type and numbers of personnel to be assigned to particular jobs, based upon task analytic data, human fatigue data, and experience in operating a particular system.

Feei Critical staffing rates

Those staffing levels below which it is considered unlikely that a system can sustain operations, and that performance degradation can be anticipated.

Feek Manning reduction

A process by which the manning of certain systems is reduced to critical or essential levels in order to reduce personnel and training costs.

Feeka Essential manning

Feem Personnel replacement

The process of anticipating the loss of individuals in specific jobs and planning for their replacement without loss of support to the organization.

Feeo Billets Approved job positions within a system manning structure; only one person can be assigned to a given billet at a particular time.

Feeq Tour of duty

The length of time an individual is assigned to a operational unit, usually outside the continental U.S., as, e.g., a tour of duty on a deployed Navy aircraft carrier.

Fees Personnel reassignment

Reassignment of personnel to fill positions in which incumbents (a) have completed tours of duty, (b) are being discharged, (c) are going into training, or (d) have attrited.

Feeu Personnel rotation

Rotation of an individual from one duty station to another, usually varying in terms of remoteness to CONUS.

Feeuc Unit rotation Rotation of a complete military operating unit from one geographic area of assignment to another, usually varying in terms of remoteness to CONUS.

Feew Personnel relocation The change in geographic location of an individual's duty station, either temporarily or permanently.

Feewc Permanent change of station

Permanent change in geographic location of duty station, which involves allowances for transportation of household goods; may also include a dislocation allowance, including dependents' travel costs.

Feewca PCS

Feg Tenure Unbroken elapsed time spent in a particular job, or in association with a particular employing organization.

Fega Time-in-grade

Fega Time-in-service

Feh Reduction-In-Force

A necessary reduction, either permanent or temporary, in the number of personnel employed by the government, military or civilian, due to economic restrictions or reverses.

Feha RIF

Fei Personnel gains / losses

Human resource accounting of numbers of personnel gained or lost (with associated circumstances) to military operating units, training facilities, and to military service.

Feic Attrition

Loss of military personnel prior to expiration of active obligated service (EAOS) due to health reasons, disciplinary action, inability to perform, hardship, etc.

Feica Retirements

Feica Separations

Feica Terminations

Feicc First-term attrition

Loss of military personnel to their Service prior to EAOS during their initial 4- or 6-year enlistment period due to hardship, health, inability to perform, discipline problems, etc.

Feice Second-term attrition

Loss of military personnel to their Service prior to EAOS during their second 4- or 6-year enlistment period due to hardship, health, inability to perform, discipline problems, etc.

Feicg Attrition prediction

Use of various predictors (e.g., test scores, attitude questionnaires, demographic data, occupational data, etc.) in the attempt to predict those individuals who are unlikely to endure a 4- or 6-year enlistment period.

Feici Attrition reduction

Programs which, through education, remediation, counseling, or special support, attempt to reduce the loss of personnel before completion of their current enlistment period.

Feie Retention The process of "retaining" military personnel beyond their current enlistment; i.e., achieving their reenlistment.

Feiec Retention rates The ratio of those leaving military service to those who have decided to reenlist in a particular specialty (rating) area; provides a barometer of the level of attractiveness of civilian life and military job availability.

Feig First-term enlistment That enlistment period characterized by an individual's first enlistment in a military Service, usually a 4- or 6-year period.

Feii Reenlistment Completion of one enlistment contract, followed by a subsequent enlistment contract.

Feiic Reenlistment rates

The ratio of individuals completing their current enlistment contract, and who choose to reenlist, to those individuals who choose to return to civilian life after enlistment contract completion.

Feiie Reenlistment incentives

Incentives offered to prospective reenlistees to persuade them to reenlist (e.g., special schools, choice of duty station, Regular Reenlistment Bonuses [RRB], and Selective Reenlistment Bonuses [SRB]).

Fek Personnel costs

A broad spectrum of costs associated with obtaining and supporting military personnel, including costs of recruiting, training, transporting, paying, feeding, providing health services, and discharging.

Fekc Attrition costs

The costs (nonrecoverable) associated with loss of personnel before expiration of their current active obligated service contracts.

Feke Relocation costs

Moving, travel, and incidental expenses associated with relocating personnel and their families for PCS moves, with lesser costs for some TAD moves.

Fekg Wage rates

Pay rates (hourly, daily, monthly, annually) considered equitable for a given set of job duties and responsibilities within a particular geographic area.

Feki Personnel cost data

A compilation or store of data for a set of cost contributors (see Fek) which can be used in assessing overall cost levels, and for directing and assessing management actions to limit or decrease personnel costs.

Fem Human resource accounting

The management process of identifying all personnel positions in a particular organizational unit, along with skill/knowledge requirements, number of personnel in each position, and associated costs.

Feo

Personnel management issues

Those problems and concerns which impact the manner in which an organization is managed with respect to human resources.

Feoc Personnel management systems

Various structuring approaches for aiding personnel managers in planning, goal-setting, identifying problems, and proposing strategies for problem solving.

Feoe Accessioning systems

Complex military personnel systems which aid in identifying enlistable sources, screening and recruiting candidates, and transitioning personnel from civilian to military life, usually into a recruit training facility.

Feog Personnel management techniques

Various techniques for organizing, assigning, evaluating, compensating, and motivating an organization's human resources.

Feoi Personnel policies

Formalized organizational statements of management's intent with respect to certain personnel management control issues (e.g., leave, tardiness, benefits, etc.).

Feok Personnel management evaluation

Assessing the quality of personnel performance relative to the cost and use of associated personnel programs and support systems; assessing the cost of human resources relative to the attainment of organizational goals.

Feokc Personnel management effectiveness

The implied ratio of the costs of personnel and personnel management to such outcomes (or products) as level of productivity, turnover, absenteeism, attainment of objectives, etc.

Feq Personnel records

A central store of information on each individual in an organization, within which is recorded the individual's background, important dates, training, performance evaluations, specific strengths, salary, etc.

Feqa Personnel files

Feqc Paperless personnel records

Computerized personnel records, with the expected elimination of all hard-copy records from personnel files, which can be communicated to users through computer networks.

Feqca Microchip records

Feqe Soldier data tags

A machine-readable micro-data form carried on the soldier, similar to traditional metal "dog tags," and which contains vital data about the wearer for use by medical personnel and others in case of emergency.

Feqg Personnel inventories

A listing of all personnel in a given organizational unit, along with their particular qualifications, training, work experiences, successes, failures, career aspirations, and individual preferences.

Feqga Personnel profiles

Fes Equal Employment Opportunity

A federally mandated program in which it is asserted that individuals shall not be discriminated against with respect to job opportunity on the basis of race, ethnic background, religion, sex, or age.

Fesa EEO

Fesc Affirmative action

A federally mandated program which provides for special consideration of qualified women and minorities for promotion and job opportunities.

Feu Military justice

A system based on the Uniform Code of Military Justice established by Congress for regulation of the military, and all lawful orders and regulations of the Services and of their superior officers.

Feua Court martial

Feua Military brigs

Feuc Disciplinary measures Actions taken in the military in response to infractions of the Uniform Code of Military Justice.

Few Labor relations The realm of interaction between organizational management and organized labor with respect to collective bargaining issues and negotiation of labor contracts.

Fewa Collective bargaining

Fewa Grievance procedures

Fewa Labor union issues

Fg Compensation

Monetary reward for regular employed services of military and civilian personnel, according to basic wage rates and scales established for particular jobs and levels, and for performance of non-routine jobs and actions.

Fgc Compensation system design

A structure of levels and grades designed to reward individuals equitably for varying contributions to system operation, based upon differential skills, experiences, responsibilities, and risks assumed.

Fgca Compensation structure

Fgcc Compensation innovations

New, or unusual, approaches to recognizing unique or emerging contributions of individuals through special reward mechanisms.

Fgce Advancement-in-rate

Enlisted personnel advancement in paygrade within a particular rating, usually through competitive examination.

Fgcg Merit pay

Personnel compensation (pay) based upon individual merit or quality of work.

Fgcga Pay for performance

Fgci Pay grades / scales

A system of pay grades based on levels ranging, e.g., from E-1 through E-9 for military enlisted personnel, and various GS levels and steps for civil service personnel.

Fgck Pay caps / freezes

The establishment by Congress of a limitation on salary level, usually for upper-level civil service personnel, in order to "freeze" any pay increases other than cost-of-living adjustments.

Fgcm Reenlistment bonuses

Regular Reenlistment Bonuses (REB) are paid to all individuals who are reenlisting; Selective Reenlistment Bonuses (SRB) are paid to individuals in certain critical ratings or classification codes.

Fgco Special pays

Special personnel compensation (pay) based upon various special job assignments performed or other special conditions.

Fgcoa	Hazardous	duty pay	
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Fgcoa Premium pay

Fgcoa Proficiency pay

Fgcoa Sea / foreign duty pay

Fgcq Compensation comparisons

Pay/benefits comparisons aimed at maintaining an equitable balance between military and civilian pay for jobs with similar requirements for skills, abilities, and experience.

Fge Benefits

Compensation in addition to basic pay provided to military personnel and their families which gives added value to the military service as an occupation.

Fgec Health care benefits

Free medical and dental care provided to all activity duty personnel; dependents of active duty personnel and retired personnel receive health care benefits under the CHAMPUS program.

Fgeca Medical benefits

Fgecc Maternity benefits

Administrative and monetary benefits which are usually available to birthing mothers and, less frequently, to birthing fathers.

Fgece Injury compensation

Compensation paid to an individual based upon the percent of disability or incapacity incurred in injuries sustained on the job.

Fgecea Disability compensation

Fgee Insurance benefits

Servicemen's Group Life Insurance (SGLI) is available to active duty military personnel at a nominal cost per month.

Fgeg Retirement benefits

Benefits available to those "retired from active service" with 20 years or more of service (based on 2.5% of basic active duty pay times the number of years of active service).

Fgei Survivor benefits

Dependency/indemnity compensation to a service member's unmarried widow, unmarried children under 23 (with restrictions) and certain parents, in the event of the service member's death on active duty, or service-connected disability.

Fgeia Death benefits

Fgek Separation benefits

Certain personnel benefits which accrue as a result of separation from govenment employment.

Fgeka Severance benefits

Fgem Educational benefits

Benefits providing evenings, workday time off, sabbatical leave, or other time on a matching-funds basis for individuals to gain educational experience.

Fgema GI bill

Fgema Tuition assistance

Fgeo Housing benefits

Public quarters, mobile-home parks, government-insured privately owned projects, and leasing of privately owned units for married military personnel.

Fgeoa Supplemental housing allowance

Fgeq Commissaries

2.5

Primarily food markets operated by the military Services where active duty and retired military personnel and families can shop for goods at reduced prices.

Fges Special Services benefits

Military benefits including hobby shops, entertainment programs, and recreational facilities.

Fgesa Recreational facilities

Fgeu Subsistence benefits

Basic Allowance for Quarters (BAQ) available to married and single service personnel not occupying government quarters; Basic Allowance for Subsistence (BAS) available to service personnel not provided meals at government expense.

Fgeua Meal expenses

Fgeua Quarters allowance

Fgew Military exchanges

A small department store operated by a military Service, where active duty and retired military personnel can purchase a wide range of articles at reduced prices.

Fgi Reimbursements

Compensation paid to individuals to cover their authorized expenditures in the course of any activities related to assigned duties or other authorized action.

Fgk Leave Authorized absence from work.

Fgkc Maternity leave

Leave from work for purposes of the female giving birth, for postnatal care, or for the male to provide family aid and support.

Fi Occupational analysis

The study of characteristics of various occupations, individually and by occupational families, to identify and classify similarities and differences for purposes of enhancing career planning, personnel assignment, and training.

Fic Occupational analysis techniques

Analytic techniques, usually computer-based, which allow for definition of subsets of job activities to be identified and clustered to permit development of occupational structures.

Fica CODAP

Fie Occupational differences

Differences among occupations defined in terms of job behaviors, background requirements, skill and knowledge requirements, or environmental considerations; used in structuring jobs.

Fiec Civilian-military comparisons

Data regarding job similarities and differences, which aid in interpreting the military value of certain civilian occupations, as well as aiding in counseling military personnel returning to civilian life.

Fig Technical qualifications

Qualifications for technical background, training, and experience considered necessary for success in a particular job or job family.

Fik Job skills transfer Skills learned on one job that can be utilized on, or transferred to, another job.

Fim Occupational structures

Arrays of jobs and job families, without regard to organization, based upon common aspects (dimensions, functions, tasks) of the component occupations.

Fime Job inventories

Computerized or hard-copy listings of titles and characteristics of various jobs or job families for such purposes as career counseling, occupational structuring, and compensation planning.

Fime Occupational grades / skill levels Grades or levels identifiable within a particular occupation or job family that represent significant increments (differences) in particular job requirements (training, skill, knowledge, physical capacity, etc.). Fimg Occupational structuring programs

Military or civilian programs with the objective of organizing occupations or major job families into structures which facilitate recruiting, training, personnel assignment, and compensation.

Fimi Civilianization of military jobs

The use of civilians to perform certain military jobs which are difficult to fill through military pipelines, or which require skills or abilities which are very expensive to train.

Fio Occupational databases

Computerized databases of occupational information which supports career planning, occupational structuring, and manpower planning efforts.

Fiq Occupational effectiveness Conditions and circumstances related to an individual's personal or family life, or job, which influence quality of job performance.

Fiqc Personal effectiveness factors Variables internal and external to the individual which influence his/her quality of performance in either a positive or negative way.

Fiqcc Morale

An attitude in individuals or in a group characterized by confidence, control, and motivation, or the lack of those attributes.

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Fiqce Adaptability

Individual or group flexibility in adapting to changes (stressors) in the work environment without undue loss of performance effectiveness.

Fiqcg Dissatisfaction

Emotional and attitudinal state occurring when an individual's personal goals or expectations of his/her job are frustrated and remain unfilled.

Fiqci Personal goals / objectives An individual's desired achievements and expectations, implicit or explicit, regarding his/her job, and imposed on the work environment.

Fiqck Health

The emotional and physical well-being of the individual.

Fiqcm Religious values An individual's religious orientation and beliefs, as they relate to work, performance, and fellow workers.

Fiqco Socialization

The assimilation of an individual into a group through acceptance of group norms, values, and objectives (organizational culture).

Fiqcq Self esteem Self worth, or self value; the attitude, positive or negative, toward oneself and one's behavior.

Fiqcs Personality

The composite of human behavioral, emotional, and attitudinal characteristics which make up the "uniqueness" of the individual.

Fiqe Job-related effectiveness factors Factors in the job environment, both social and physical, which affect job performance.

Fiqec Employee involvement

Degree of commitment, enthusiasm, and initiative of an employee with respect to joint organizational goals and change programs; extent of an employee's "taking ownership" of organizational initiatives.

Fiqee Incentives

Extrinsic or intrinsic rewards for achieving productivity goals, or for special contributions and accomplishments, with the intention of promoting desired behaviors.

Fiqeea Awards

FiqegMotivationStimulation or encouragement of one's behavior due to the expectation that various needs will be fulfilled.

Fiqei Job satisfaction

A measure of the degree to which an individual's expectations for intrinsic and extrinsic rewards are met by the job being performed.

Fiqek Commitment

The degree to which an employee (or group) is dedicated to, and shares the goals of, the organization or work group.

Fiqem Transfer

A move from one job to another, typically involving displacement from an established work/social/physical environment to another.

Fiqeo Deployment

Mobilization and movement of military units to foreign geographic locations for specific lengths of time.

Fiqeq Job performance feedback

Providing individuals with information on the perceived level of their job performance, generally with corrective or motivational intentions.

Figes Service expectations

Preconceived notions and ideas which an individual brings to the military service experience from civilian life, affecting his/her adaptability to military life.

Fiqg Family-related factors

Family circumstances/conditions which may either enhance or degrade job performance.

Fiqgc Family values

Family-related orientation and attitudes which may affect, either positively or negatively, an individual's work.

Figge Family separation

Separation of military personnel from their families, with the associated problems and stresses which result.

Fiqgg Family relocation

Relocation of family, usually associated with a military member's transfer.

Fiqgi Family harmony Degree to which family relationships are supportive and facilitating, rather than dissonant and inhibiting.

Fiqgk Single parent issues

Concerns, problems, and behaviors of a single parent performing in the dual role of parent and member of the work force.

Fiqi Community - / social-related factors Community and societal factors affecting an individual's effectiveness as an employee or military service member.

Fiqia Social change effects

Fk Job analysis

Occupation- or job-referenced analysis for the purposes of developing job requirements, job classifications, personnel selection, career paths, personnel placement, and vocational counseling.

Fkc Job description

Listing of specific tasks performed on a job, including data on performance time, products and outputs, relationship to other jobs, and a brief summary of skill-knowledge requirements.

Fkca Job definition

Fkca Job specifications

Fke Job design

Design of job tasks, with consideration for relevant technology, custom, physical environment, supervisory needs, influence of individual job incumbents available for placement, and job enlargement 1 and enrichment needs.

Fkg Position analysis

Work analysis involving clustering of job tasks into positions; consideration for task homogeneity, common personnel requirements, task loading, serial nature of tasks, and continuity with organizational and career path structure.

Fki Job classification

Use of a taxonomic system and variables which describe job-related behaviors in order to evolve a language which provides for relating, comparing, analyzing, and studying jobs.

Fkic High-skill jobs

Jobs that contain specific skills or abilities which require exceptional investment in education, training, experience, and practice in order to meet job standards.

Fkk Job requirements

Highly specific statements of job activities/behaviors and associated standards of performance with respect to skills, abilities, knowledge, and experiences considered necessary to perform a particular job satisfactorily.

Fkkc Job requirements determination

Application of job and task analysis methods and techniques tailored specifically to the objectives, associated information needs, and characteristics of the jobs under analysis.

Fkke Skill / knowledge requirements Specific requirements associated with particular job- and task-related skills and knowledge.

Fkkg Physical requirements Strength and agility requirements of a particular job for lifting, stretching, twisting, leaning, pushing, and sustaining operations.

Fm Health and human services That category of individual and family services provided which concerns physical and emotional well-being, and the ability to be self-sufficient.

Fmc Occupational health Health considerations, policies, and practices related to the work environment.

FmeHealth care deliveryProvision of appropriate and timely health care to patients of need.

Fmec Fleet medical care Level, type, and quality of Navy medical care provided on shipboard, as opposed to established shorebased medical care.

Fmee Field medical care

Level, type, and quality of military medical care provided in the field, as opposed to established care in medical clinics, hospitals, and facilities.

Fmeg Combat medical care Level, type, and quality of military medical treatment and care provided to individuals wounded or injured in declared combat zones.

Fmg Health care programs / services Programs designed to address and alleviate physical and mental health problems, support individual and family well being, and provide the facilities and administrative support necessary for those objectives.

Finge Alcohol / drug abuse programs Programs designed to first attempt to prevent substance abuse, and then to detect individuals with substance abuse problems so as to make available effective treatment and support.

Fmgca Alcoholism prevention

Fmgca Alcoholism treatment

Fmgca Drug abuse prevention

Fmgca Drug abuse treatment

FmgeMental health programs / servicesPrograms for service personnel and their families with behavioral or emotional problems, varying fromindividual counseling and group therapy to psychiatric evaluation and treatment.

Fmgea Psychiatric programs

Fmgec Stress reduction

Use of relaxation therapies, hobbies, exercise, counseling, and other coping strategies to aid in reducing individual or group stress.

FmggDependents health careHealth care programs (CHAMPUS) for wives and dependent children of service personnel; includes bothoutpatient care and hospitalization.

Fmgi Health maintenance programs Programs devoted to preventive medicine and frequent checkups in order to maintain a healthy mental and physical state in the individual and to minimize (or eliminate) illness.

Fmgo Rehabilitation programs

Programs devoted to restoring physical and emotional health to individuals emerging from physical injury, substance abuse, or emotional difficulties.

Fmi Health care facilities Facilities for health care delivery, varying in size, location, mission, comprehensiveness of services, and operational procedures, with their associated costs and effectiveness in addressing health care needs.

Fmk Health services management / planning Application of specialized management tools and techniques in planning th

Application of specialized management tools and techniques in planning the use of health service resources, and in the management of those resources to achieve anticipated objectives.

Fmkc Health manpower utilization

The degree to which medical services personnel resources are exercised to the upper levels of their capabilities, compensated equitably, and enabled to fulfil anticipated productivity (throughput) objectives.

Fmke Health care costs

Monetary costs of providing for facilities, staff, equipment, laboratories, administration, and management of a particular health care system.

Fmkg Health services evaluation

Evaluation of the degree to which objectives for a health care system have been met (individual, group, family), compared to the level of investment and cost.

Fmki Health patterns

Trends in certain illnesses or injuries, which have implications for future needs in medical technology, treatment procedures, medical personnel types, and equipment and facilities.

Fmkk Health care data

Accumulated data on illness and accidents, including incidence rates, response times, cure rates, costs, associated problems, types and numbers of medical personnel involved, specific program successes/failures, etc.

Fmm Human services programs

Programs related to the overall happiness and well being of the individual and his/her family.

Fmmc Recreational programs

Programs for individuals and families which provide opportunities for sports, hobbies, camping, boating, etc.

Fmme Child care programs

Primarily programs of day care for the children of working parents who require such services.

Fmmg Religious programs / chaplainry

Programs which provide for religious support and counseling within the context of a chosen religion.

Fmmi Family counseling / support programs

Programs designed to aid service personnel with marital, child- rearing, family separation, child/spouse abuse, financial, and other family-related problems.

Fo Maladaptive behavior

Behavior (especially chronic) that is in conflict with accepted societal values, and that promotes alienation, violence, various forms of personal or substance abuse, and criminal acts.

Foc Asocial / antisocial behavior

Behavior which violates implicit or explicit rules of property and personal rights, and serves to degrade group cohesiveness and interpersonal trust.

Focc Unauthorized absence

(Military) Includes unauthorized absence from duty station, leaving duty station, returning late from authorized liberty, and overstaying leave.

Focca AWOL

Focca Desertion

Foce Absenteeism Failure to report on time, ready to perform one's assigned job; chronic unexcused absences.

Focg Delinquency Commission of infractions of moral or legal codes.

Foci Discipline problems

Behavioral/attitudinal problems associated with individual or group inability, or refusal, to conform to established laws, rules, or codes.

Aggression

Fock

Widely variable, generally threatening, behavior response ranging from hostile action or physical to verbal criticism and abuse, and which is unacceptable when abusive, physically harmful, or socially disruptive.

Foe Substance use / abuse Use or abuse of a particular substance, legally or illegally, that results in impaired functioning, injurious behavior (to self or others), criminal misconduct, general incapacity, etc.

Foea Alcohol use / abuse

Foea Drug use / abuse

Foea Tobacco use / abuse

Fog Criminal behavior Behavior which results in an infraction of a criminal statute.

Fogc Child / spouse abuse Verbal, physical, or sexual abuse of a child or spouse by a close family member.

Fq Socio-cultural issues

Issues involving interpersonal, intergroup, or cultural/racial/ethnic dynamics, and which either enhance or degrade the quality of human relations and work effectiveness.

Fqc Cross cultural dynamics Interactions or relations between two or more cultures related to levels of tolerance and mutual adaptability within a particular shared society.

Fqcc Intergroup conflict Conflict over the differences in manners, customs, values, and acceptable behaviors between two or more social groups, often due to cultural differences.

Fqce Cultural assimilation A measure of the ability of one culture to accept, or adapt to, the manners, morals, and social values of another culture.

Fqe Racial / ethnic issues Issues involving racial or ethnic differences, which tend to degrade interpersonal and intergroup relations, and create conflict, tension, and social stress.

Fqec Race relations

The state or quality of interaction, communication, tolerance, and accommodation between two or more races within a given society.

Fqee Racial inequality

A societal condition in which one race, through discriminatory laws or practices, experiences inequality in terms of political, social, and economic opportunity.

Fqeg Racial / ethnic conflict

The conflict which results when one race or ethnicity strives to overcome bias and discrimination imposed by another race in order to achieve equality.

Fqg Sex issues

Issues having to do with political, economic, and social equality and justice between the sexes.

Fqgc Sex discrimination

Use of sex differences as the basis for discrimination in granting of political, social, or economic rights and opportunities.

Fqge Sex inequality

Inequality in political, social, or economic rights and opportunities as a function of sex.

Fqgg Sexual harassment

Physical or verbal behavior of an explicitly or implicitly sexual nature, directed from one sex (usually male) to the other, and which has an offensive or intimidating effect in the workplace.

Fqi Religious issues

Negatively biased and discriminatory attitudes, beliefs, and behaviors, directed toward an individual or group, and based on religious affiliation.

Fqk Societal issues

Issues related to a particular society, involving politics, economics, religion, moral/ethical values and practices, rights, etc.

Fqkc Military roles in society

The identity and pattern of behavior of the military Services that is characteristic, expected, or desired by individuals or society at large.

Fqm Moral / ethical issues Issues related to societal values regarding moral/ethical behaviors (i.e., "right" and "wrong" behaviors).

Fqo Bias / prejudice

1) An inclination to favor favor one position over another; 2) a predisposition, based on entrenched attitudes or beliefs, to make value judgments not necessarily consistent with, or related to, existing facts/circumstances.

Fs Human resources management databases

Computerized databases which include data on such topics as personnel structures, career paths, job inventories, projected job requirements, critical positions, present employee skill/experience inventories, personnel costs, etc.

Fsa Personnel databases

Fsc Human resources information systems

Computer-based, interactive systems, usually with networking capability, tailored to be the end user's "front end" data analysis/retrieval method for a major personnel/human resources database system(s).

Fsca NHRIS

ORGANIZATIONS

G ORGANIZATIONS

Design, management, change, group processes, leadership, etc.; achievement of specified goals, within a hierarchy of authority, through a division of labor and coordinated activities, while optimizing organizational conditions.

Gc Organization type

Refers to types of organizations grouped according to various categories, such as organizational function or mission, products, affiliation, size, etc.

Gcc Countries

Independent political states, nations, or territories having geographic identities and usually a racial, ethnic, and language distinction.

Gccc Foreign countries

Political or governmental states or nations other than the United States of America.

Gcce Allied countries

Those countries considered to be politically, economically, and militarily allied with the United States; this usually includes alignment with respect to specic treaty agreements.

Gccec NATO countries

Members of the North Atlantic Treaty Organization, headquartered in Brussels, Belgium, and having the objective of defending the continent of Europe from Russia (USSR) and the Warsaw Pact Nations; currently under revision.

Gccee TTCP Program countries

The Technical Coordination Program, including the United States, Canada, Great Britain, and Australia, dedicated to the exchange of technical information in the areas of manpower, personnel, training, and human factors.

Gccg Adversary countries

Those countries considered, in national security planning, to be potential military adversaries (e.g., Cuba, Libya, North Korea, Iran).

Gce Federal government

The national governing body of the United_States, composed of executive, legislative, and judicial branches, and headquartered in Washington, D.C.

Gcec Congressional authorization Authorization, contained in a piece of legislation, to spend federal funds for a particular purpose.

Gceg Department of Defense

A major component of the executive branch of the federal government, containing all the military Services, and responsible for personnel and materiel resources in the defense of the country.

Gcegc Army

A branch of the Department of Defense and the military Service responsible for support of national defense policies concerning land-based warfare, including vertical envelopment.

Gcege Air Force

A branch of the Department of Defense and the military Service responsible for support of national defense policies concerning strategic and tactical air warfare, and strategic missile deterrent forces.

Gcegg Navy

A branch of the Department of Defense and the military Service responsible for support of national defense policies concerning oceangoing warfare, the national maritime plan, and keeping international sea lanes open.

Gcegi Marine Corps

A branch of the Department of the Navy responsible for Navy military security and for quick sea-to-shore military response world-wide in support of national defense policy.

Gcegk National Guard

An air and land military force assigned at the state level, but supported by the Department of Defense, responsible to governors at the state level and to the executive branch at the national level.

Gcegm Reserve military forces

Army, Air Force, and Navy forces on inactive duty who train regularly to maintain readiness, and who may be called to active duty by the President in the event of a national emergency.

Gcego Joint military Services

The three primary military Services (Army, Air Force, Navy) acting together toward common goals, usually under the aegis of the Joint Chiefs of Staff, Department of Defense.

Gcegoa Tri-Service

Gcei Department of Transportation A component of the executive branch of the federal government responsible for all aspects of ground, air, and water transportation within the continental limits of the United States.

Gceic U.S. Coast Guard

A branch of the Department of Transportation responsible for enforcing laws and international agreements on and under waters of U.S. jurisdiction, for ensuring safety of vessels, and for maintaining a ready military force in war.

Gceica USCG

Gceie Federal Aviation Administration

A component of the Department of Transportation responsible for the national airways system, including air control, air safety, and the licensing of aircraft and personnel who operate them.

, Gceiea FAA

Gcek Office of Personnel Management A component of the executive branch of the federal government responsible for carrying out policies concerning the federal government's civilian workforce.

Gceka OPM

Geem National Aeronautics and Space Administration The government agency which administers the national space policy and all related activities.

Gcema NASA

Gcg State / local governments Elected governmental bodies below the national level, with budgeting and taxing authority, and which represent the populace at the respective State and local levels.

Gci Human services organizations

Those organizations at the federal, State, and local levels dedicated to providing personal services to qualified individuals and families in the area of basic human needs (e.g., housing, food, child care, medical care).

Gck Private sector organizations

Organizations which provide goods or services and which have no local, State, or national governmental allegiance or affiliation, and which operate, for the most part, in a competitive, profit-oriented environment.

Gcka Companies

Gcka Private industry

Ge Organizational design / development

Involves theories and techniques for planning and managing change, setting goals, designing structures, procedures, and policies, and for developing individuals and groups through sensitivity training, counseling, etc.

Gec Organizational theory

Theory that attempts to describe how organizations actually function, and to offer guidance as to how they can be managed, structured, or changed, to improve individual or organizational effectiveness.

Gee Organizational structure

The "division of labor" and "hierarchy of authority" within an organization.

Geec Organizational complexity

The extent of differentiation of function, structure, and location within an organization, as reflected in such areas as specialization, hierarchical levels, and geographic dispersal of its units.

Geee Organizational procedures

Those steps, rules, and policies that define the manner in which an organization is intended to operate, and that provide means by which behavior of members is controlled and regulated.

Geeg Civilian-military interface

Interactions between structures, procedures, and goals of civilian and military groups embedded within the same organization (e.g., the DoD organization).

Geei Individual roles

Definitions and expectations of how an individual is to behave in an organization; the job the individual is to perform.

Geek Individual-organization relationships

Relationships between individuals and the organization in which they work; generally defined by the degree of concordance between the respective goals established and/or pursued by the individuals and the organization.

Geg Organizational communication

The process of communicating management's policies and intentions down through the organization's hierarchy, as well as communicating personnel or lower-level needs and concerns upward through the organization.

Gegc Organizational communication networks

Formal devices and procedures for communicating information throughout an organizational hierarchy; e.g., memoranda, supervisory briefings, newsletters, public address systems, closed-circuit TV, etc.

Gei Organizational change

Change in structures, procedures, and/or goals of an organization, usually in reaction to an external or internal environmental requirement.

Geia Change implementation

Geia Change intervention

Geia Change management

Gek Organizational goals / objectives

Near-term, mid-term, and long-term goals established by an organization to ensure its continued health and success.

Gem Organizational policy

An official or formal statement or position of an organization that may address any of the various functions and activities within it; e.g., guidelines for job performance, rules of personnel conduct, etc.

Gemc Policy planning / development Decision making related to the planning and development of any organizational policy.

Geme Policy implementation

The process of putting a new policy into effect, involving use of accurate and broadly disseminated information to all concerned, with provision for feedback recommended.

Gemg Policy evaluation

Evaluation following new policy implementation to ascertain the extent to which the policy had the desired effect.

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Gemga Policy testing

Geo Organizational culture / climate Internal system of shared values/beliefs related to an organization's people, structures, control systems which produce behavioral norms; "climate" measures whether the system is conducive to change, or the degree of harmony/conflict.

Geoc Organizational stability / turbulence

A measure of the degree to which an organizational system is in a steady-state condition (i.e., in equilibrium, or harmony), or, conversely, in a opposite state (turbulent, or volatile).

Geoe Quality of work life

A measure of the dègree to which a job meets the expectations of an individual for intrinsic and extrinsic rewards; a broad interpretation of level of job satisfaction.

Geog Organizational values Formally or informally shared ideas of what is considered important by the members of an organization.

Geoga Organizational ethics

Geq Individual development

The process within an organization of determining individual need, and finding and applying resources to improve individual growth, effectiveness, and worth to himself/herself and to the organization.

Geqc Self-assessment

A first step in career development, in which an individual, with the aid of self assessment tools, determines his/her skills, abilities, interests, values, needs, etc.

Geqe Job enrichment

Approaches to job design which enhance the job vertically (enrichment) and/or horizontally (enlargement), and which theoretically can improve the worker's job satisfaction and motivation.

Geqg Counseling

The interpersonal process of aiding an individual (or group) in understanding problems and seeking personally and socially acceptable approaches for their solution or improvement.

Geqk Mentoring

A voluntary process in which a senior member in a group/organization serves as a facilitator for a junior member, often as part of a career development program.

Ges Leadership

The exercise of power, authority, and control to influence members in a group/organization to engage in organizationally relevant behavior to advance the group/organization toward its objectives.

Gesc Leadership development

Development of those personal qualities in an individual which can be expected to lead to the productively successful guidance and control of others.

Gese Leadership styles

Individual differences among leaders in the manner in which power, authority, and control are used to effect desired group behaviors.

Gesg Leadership techniques

Techniques for influencing or motivating group members to engage in organizationally relevant behavior.

Gesi Leadership assessment

The process of assessing the quality of group leadership for a given social structure, group composition, and set of objectives.

Gesic Leadership effectiveness

A measure of the degree to which the quality of leadership has resulted in advancing an organization toward its objectives (individual, group, or organizational).

Gesie Leadership performance prediction

Use of various types of psychometric devices, as well as background and experience variables, in an attempt to predict leadership ability and success for particular group compositions.

Gesk Leadership theories

Various psychological theories which postulate various personality traits, experiential variables, or interpersonal skills which can aid in the identification or development of successful leaders.

Gesm Leadership potential

Based on various forms of predictive data, an estimation of the likelihood of success of an individual in a leadership role.

Geu Operational unit design The design of the composition of a particular operating group as a function of objectives, characteristics of members, and type and quality of leadership available.

Gg Group development / processes

The methods and processes employed in the development of groups with particular compositions for specific purposes.

Ggc Group dynamics

A branch of social psychology dedicated to the study of groups, their composition, interactions, aims, activities, cohesion, leadership, decision processes, etc.

Ggcc Group cohesiveness

Measure of the degree to which group members work together cordially and effectively, wherein the interpersonal relationships promote positive bonding that supports and sustains the group beyond immediate objectives and activities.

GgccaComradeshipGgccaGroup friendships / affiliations

Ggcca Group loyalty

Ggce Group identification

A measure of the degree to which individual members of a group internalize and accept "ownership" of the standards, values, beliefs, and ideals of the group.

Ggcg Inter-group / intra-group communications Refers to the types and relative effectiveness of various forms of formal and informal communications between (inter-) and within (intra-) groups.

Ggci Group competition / cooperation

Measure of the degree to which various factors engender competition or cooperation among group members, thus tending to facilitate or impair group performance as a function of group objectives, group composition, leadership style.

Gge Group composition / structure

Number and types of group members, their relationships, and the group characteristics which determine the internal dynamics of the group and its relationships with other groups.

Ggea Team structure

Ggec Male-female mix

The male-female composition (gender ratio) of a group, especially with reference to its effect on group performance.

Ggee Racial / ethnic mix The racial or ethnic composition of a group, especially with reference to its effect on group performance.

Ggeg Skills / experience mix

The job-qualifying skills composition of, or distribution within, a group, especially with reference to its effect on group performance.

Ggei Heterogeneous groups

Groups whose member composition is essentially well differentiated with respect to gender, race, skills and abilities, background, experience, leadership style, etc.

Ggek Homogeneous groups

Groups whose member composition is highly undifferentiated with respect to gender, race, skills and abilities, background, experience, leadership style, etc.

Ggem Small groups

Groups of small enough size for direct interaction to occur among all group members on a relatively frequent basis.

Ggg Group performance

Performance of a group, usually subject to some form of measurement or appraisal, in which success depends upon effective group dynamics.

Gggc Group problem solving

Process of arriving at solutions or approaches to problems by a group, either through consensus or by majority vote of the members.

Ggge · Group decision making

Process of arriving at opinions or judgments on issues by a group, either through consensus or by majority vote of the members.

Gggg Group / team effectiveness

A measure of the degree to which a defined group fulfills its objectives, weighed against investments of time, funds, and personnel and material resources.

Gi Organizational effectiveness

Effectiveness as measured by various techniques, including a multivariate assessment model of processes (means) related to outputs (ends), with due consideration of strategic constituencies and the life-stage of the organization.

Gic Productivity

A measure of the level of output (product) produced by an organization under specified conditions and circumstances for a specified time period, as compared with the level of input investment (material and personnel costs).

Gicc Individual productivity

The level (rate) of work or product output produced by an individual for a specific time period, compared to the level of input investment costs.

Gice Group productivity

The level (rate) of work or product output produced by a group for a specific time period, compared to the level of input costs.

Gicg Productivity measures Usually multivariate measures which reflect level of output of an individual or group which are relatable to more ultimate measures of organizational gain.

Gici Productivity improvement

The general process of identifying and implementing techniques or mechanisms by which the ratio of input and process costs to the value of the output or product can be decreased.

Gicia Productivity enhancement

Gicic Quality circles

Formal, generally functionally homogeneous groups of organizational members which convene, with management representation, to discuss various problems and to seek practical, effective solutions; a form of participative management.

Gig Organizational evaluation

A multivariate assessment approach in which organizational functions are assessed by differing criteria, and in which both means (processes) and ends (outcomes) are assessed.

Gii Organizational data

Data which reflect or quantify the performance levels of organizational functions (processes) and organizational objectives (outcomes).

Gk Organizational management

Leading, controlling, manipulating activities of members in their work environments to obtain effective responses to internal/external environmental challenges, improve efficiency/productivity, and optimize job satisfaction for all.

Gkc Management techniques

Various methods and techniques which facilitate management interaction with and control over the demands made on an organization and the use of organizational resources, both personnel and material.

Gkcc Management By Objectives

A management technique which involves specifying the objectives of an organization, prioritizing those objectives, specifying approaches for achieving those objectives, and monitoring progress.

Gkcca MBO

Gkce Large group management

Principles and techniques associated with managing organizational units sufficiently large to render direct communication difficult, mutual goal-setting problematical, and jurisdictional disputes likely.

Gkcg Crisis management

Ineffective, undesirable management approach characterized by last-minute responses to problems; usually due to poor external environmental sensing by the organization, where problems frequently must be confronted and resolved.

Gkci Management simulation / games

Simulations varying from simple, hands-on games (e.g., "In-Out Basket" exercises) to complex computer simulations of various organizational functioning in order to investigate/test management options, or to assess or train managers.

Gkck Management decision-making

The managerial process of gathering information, defining problems, assessing alternatives, stating decision rules, and selecting an option as the decision path.

Gkcm Human relations management

Principles and techniques associated with controlling and enhancing interpersonal relations within an organization, and between the organization and the community.

Gkco Total Quality Management

Application of management methods and human resources to control organizational processes, attitudes, and behaviors comprehensively and consistently, in order to achieve continuous, "built-in" improvements in quality.

Gkcoa TQM

Gke Management evaluation

Assessment of management techniques and methods and the individuals (groups) applying them against a set of criteria which relate to (or predict attainment of) organizational goals and objectives.

Gkec Management effectiveness

A measure of the relationship of the costs of management (personnel and material resources) to the level of attainment of stated management objectives (short-term or long-term).

Gkg Management development

Process of developing certain skills and competencies in organization members which are known or believed to enhance their capabilities and potential for success as managers.

Gkgc Managerial potential

Certain individual traits, experiences, or capabilities which are considered useful in predicting likelihood of success as a manager.

HUMAN FACTORS ENGINEERING

H HUMAN FACTORS ENGINEERING

Scientific discipline dedicated to discovering/applying information about human behavior, abilities, limitations, and other characteristics to the safe, effective design of tools, machines, systems, tasks, jobs, environments.

Hc Human factors engineering design

Design process that applies knowledge of human capabilities/limitations to the conception, development, evaluation of man-machine systems so as to optimize the performance human contribution in a hazard-free, comfortable environment.

Hcc HFE design principles

Principles of design based upon known performance relationships between human behaviors, machines, and environments which can be used to guide the design of human-machine interfaces.

Hcca HFE design criteria

Hce Man-machine interface

The various points of interaction between human and machine, wherein the capabilities (and limitations) of each are combined in complementary fashion so as to optimize performance of a particular set of system functions.

Нсеа	Crew-equipment integration
Hcea	Human-machine interface
Hcea	Man-in-the-loop
Hcea	Man-machine communication
Нсеа	Man-machine integration
Нсеа	Soldier-hardware interface
Нсеа	User interface
Hcea	User-system interface
Нсеа	Vehicle-crew interface

Hcec Cueing methods

Various methods of using visual, auditory, or tactile stimuli to cue the attention of a user/operator to a particular routine or non-routine condition which may require immediate action.

Hceca Attention cues

Hcee Voice communication

Human-computer communication that employs the human voice.

Hcg Cockpit resource management

Effective computer-assisted pilot utilization and coordination of all aircraft cockpit subsystems.

Hck HFE tools

Devices, procedures, data, techniques, and methods used in the design of human-machine systems.

Hckc Breadboards

Elementary physical mock-ups of particular man-machine system designs, used to investigate their basic electronic, mechanical, or human functional acceptability.

Hcke Prototypes

Initial or early models of devices or systems, which serve to illustrate the essential features of a particular human-machine design, and used for all forms of initial review, testing, and confirmation of design assessments.

Hckea Rapid prototyping

Hckg Testbeds

Existing, functioning equipment or subsystems which are used to "embed" a particular human-machine design for exercise and testing.

Hcki Environmental chambers

Controlled spaces in which various conditions approximating those of the intended operational environment can be reproduced for purposes of testing a particular design considered sensitive to environmental factors.

Hcm HFE design evaluation

Assessment of the acceptability of a particular design, conducted at various levels ranging from subjective appraisal, to high-fidelity simulation, to operational evaluation in the field.

Hcma Ergonomic assessment

Hcma HFE design appraisal

Hco HFE design tradeoffs

A critical aspect of man-machine design in which high or desirable values of one component are "traded" for higher values, or advantages, in another.

Hcoa Man-machine tradeoffs

Hcoa Man-software tradeoffs

He Man-computer interface

Control and display devices which define the points of interaction between a computer (or computer peripherals) and the human operator.

Hea Human-computer interface

Hea Man-computer communication

Hea User-computer interface

Hec Function allocation

Analysis in which functions/tasks are sorted and assigned singly to humans or machines; a design process for achieving joint, shared, or complementary performance between humans and machines.

Hecc Trusted system A system in which certain functions are "trusted" to automatic control.

Hee Online user help

Provisions included in computer software which offer an option to the user to request additional information in order to resolve a particular question or problem.

Heg Interactive control language

A control language which allows a user/operator to interact with a computer for such purposes as authorizing, instructional language development, information sensing, control activation, etc.

Hei Natural language interface

An English (or other) language communication interface between the computer operator and computer, as opposed to the usual alphanumeric coded languages.

Hek Automated speech / language processing

Use of computer technology to analyze the properties of human speech, generate human speech, and then recognize and take action on certain speech sounds.

Hekc Automated voice / speech recognition

Communicating with a computer wherein the computer is able to "recognize" human speech; system may be speaker-dependent/-independent (recognize only one/more than one voice), word-isolated, word-connected, or continuous-speech.

Heke Voice / speech analysis Analysis of voice communications involving such characteristics as speech intensity, distortion, filtering, frequency composition, signal-to-noise ratio, etc.

Hekec Speech intelligibility

A measure of the degree to which speech is correctly understood; does not include speech quality or naturalness, where speaker recognition is important.

Hekg Voice / speech synthesis

Use of such techniques as analysis-synthesis and synthesis-by-rule with digital computers to generate human-like speech for computers.

Hekga Computer-generated voice

Heki Speech compression

A process by which natural, connected discourse is compressed in order to reduce listening time without significant loss of comprehensibility.

Hem Automated text processing

Use of computerized text editors, text formatters, and text translators, with supporting command languages, to process textual data according to user requirements.

Hema Automated text reduction

Hema Automated text translation

Hg Control engineering

A scientific discipline concerned with the design of control mechanisms compatible with human control dynamics, by which a human controller can operate a wide variety of devices and systems.

Hgc Control system dynamics

The various response dynamics characteristics of a control system, provided as control "feedback" to the operator.

Hgca Control feedback

Hge Control systems

Mechanisms for controlling release of power (or other functions); composed of: a controller (human), a source of energy, a control effector (actual mechanism), the element(s) under control, and a sensor to provide feedback.

Hgec Manual control

Control of a device or system in which the human user/operator provides the control inputs directly (as opposed to automatic control).

Hgecc Touch-activated control

Use of touch-screens or touch-pads, wherein control inputs are made by touching (or almost touching) a symbol, target, etc., on a display device.

Hgece Controllers

Various types of devices by which the human user/operator makes control inputs (e.g., foot pedals, positioning knobs, switches, cranks, joysticks, track balls, light pens, mouses, etc.).

Hgecea Control devices

Hgee Remote control

Control of devices that extends human control function over a distance, through a physical barrier, or into a hostile environment; includes various manipulators, prosthetic devices, and walking machines; does not include robots.

Hgeg Visually-activated control

Use of various devices to track an operator's eye and head movements in order to convert them into control inputs.

Hgei Voice-activated control

Use of a computer that is programmed to recognize the speech patterns of an individual (or group of individuals), and which responds to a voice command for a particular control action.

Hgeia Voice control

Hgek Hands-off controls

Controls which may be activated by means other than with the hands, as with speech and voice activation, or eye movement activation.

Hgem Head-up controls

Controls mounted peripheral to the operator's eye level, and which allow for activation while maintaining primary visual contact with other objects.

Hgeo Adaptive control

Control (control forces and level of feedback) which is automatically adjusted as a function of vehicle speed, orientation, g-forces, etc., so as to reduce operator task loading and improve overall performance.

Hgeq Automated control

Control which employs a computer to sense control inputs and generate the necessary output signals to effect desired control actions.

Hgg Control panels

Panels upon which controls (and usually displays) are mounted according to specific human factors guidelines: e.g., spatial compatibility, proximity to related displays, functional logic, criticality, etc.

Hggc Control panel layout

The design and physical presentation (location, juxtaposition) of all the elements and functions found on a control panel.

Hi Display engineering

A technical discipline concerned with the design of display devices by which information may be presented to human operators through visual, auditory, and tactile sense modalities.

Hic Display requirements

Specific requirements for the appropriate and effective display of information, as well as for the coordination among various displays and controls.

Hie Special-function displays Displays whose functions are unique, or highly specialized.

Hiec High-resolution displays

CRT displays which incorporate approximately 1,000 raster lines, producing exceptionally sharp visual images.

Hiee Situational displays

Displays which combine data from various sensors to provide a quick "situational" assessment; e.g., in fighter aircraft, the displays report the aircraft's condition, attitude, or status with respect to a potential target or threat.

Hieg Interactive displays

Two or more functionally related displays which present information in a manner that is dependent upon the particular type and form of information presented on a companion display.

Hiei Intelligent displays

Displays which mediate information formatting, enhancement, attention cueing, clustering, etc., using some type of expert system.

Hiek Programmable displays

Displays which allow different functions or presentations to be presented by reprogramming actions executed either by the computer or by the human operator.

Hiem Integrated displays

Displays which provide for the simultaneous presentation of several functions, parameters, or modes through special formatting provisions.

Hieo Static displays Displays in which the information presented is constant over time, as opposed to dynamic or changeable.

Hieq Color displays

CRT displays which use clusters of three types of phosphor dots and electronic control to generate numerous colors (hues) in the display presentation; includes the use of filters, masks, or screens to generate color.

Hig Display design

The multifaceted process of combining a multitude of human factors and information requirements, physical properties, and the functional interaction of displays and controls in the design of displays.

Display color
Display color

Higa Display luminance

Higa Display metrics

Higa Display size

Higa Display translucency

Higc Computer image generation Use of computer technology to generate alphanumeric characters, symbols, pictorials, and graphical presentations.

Higca CIG

Higca Computer-generated graphics

Hige Display image quality The quality of a displayed image with respect to visibility, discriminability and interpretability.

Higea Image attenuation

Higea	Image contrast
Higea	Image distortion
Higea	Image fidelity
Higea	Image intensity
Higea	Image resolution
Higea	Image shading
Higea	Image texture
Higea	Visual display noise
Higec	Display legibility

A measure of the degree to which information presented on a display surface is visually discriminable by the human eye.

Higeca Display readability

Higg Display interpretability A measure of the degree to which information presented on a display can be readily understood.

Higga Display image magnification

Higga Display image orientation

Higgc Display symbology Various forms of codes and symbols used in displayed information; (e.g., alphanumeric symbols, geometric forms, figure configurations, shapes, color, etc.).

Higgca Icons

Hii Display components Various fixtures, screens, and materials which compose a display surface and which interact with the human visually.

Hiic Instrument dials Various dials, counters, pointers, and indicators, either digital or analog, which may be incorporated in the design of display panels.

Hiie Screens

Translucent display screens fabricated from a material which allows the back-projection of displayed information, or the presentation of computer-generated information, such as in large-screen displays.

Hiiea Screen materials

Hik Display types

Various electronic and chemical designs and techniques for generating an image on a particular display surface.

Hikc Cathode-ray-tube displays

Displays which use an electron gun to excite phosphor dots on the inside of the display at a rate sufficient to sustain an emitted glow to form a displayed image.

Hikca CRT

Hike Acoustic displays

Visual displays which report the results of passive and active sonar sensing, either in digital presentations or in analog graphs and traces.

Hikea Sonic imaging displays

Hikg Laser displays

Displays which use laser technology to generate a display medium which, when projected, gives the illusion of depth and dimensionality.

Hikga Holographic displays

Hiki Flat-panel displays

Displays which require a minimum of depth (less than 5 cm) in physical dimension; designs include liquid crystal, electrochromic, plasma, electroluminescence, light-emitting diode, and flat-panel CRTs and displays.

Hikj Electronic displays Displays which typically are dynamic in nature, generated electrically, and which show wide variation in the types and forms of information provided.

Hikl Electro-optical displays

Displays which provide information that is sensed by electro-optical sensor devices.

Hiklc FLIR displays

Displays which present the images sensed by Forward-Looking Infrared sensors.

Hikle LLLTV displays

Displays which present the images sensed by Low-Light-Level Television sensors.

Hikm Radar displays

Displays which present either a raw video image of the illuminated targets and antenna cursor, or a digitized image using codes and symbols.

Hiko Plasma displays

Flat-panel displays which employ an ionized gas to create images; used as an alternative to the CRT for large screen presentations, and suitable for alphanumeric readouts, large matrix panels, and graphics applications.
Hikp Liquid crystal displays

Flat-panel displays which modify the passage of externally-generated light energy to create images; characterized by low cost and compatibility with battery power, and highly popular for alphanumeric readouts.

Hikpa LCD

Hikr Thermal displays Displays which present images generated by thermal imaging sensors that are stimulated by the thermal energy (heat) emitted by a given target reference.

Hiks Analog displays

Displays in which an indicator or pointer moves over a continuous calibrated scale of numbers, where its position at any time is analogous to the value it represents, as with a dial speedometer in an automobile.

Hiku Digital displays Displays in which one discrete whole number is shown at any time, as with a digital clock.

Hikw Raster displays

A display using a "raster-scan" technique, a small downward movement between lines of phosphor dots, for exciting the dots in a CRT-type display.

Him Display presentation formats

Various format approaches for organizing, grouping, or emphasizing types of information in a display presentation so as to enhance human interpretation.

Himc Graphic displays

Displays which present information in graphical forms, such as pictorials, graphs, bar charts, flow diagrams, etc.

Himca Pictorial displays

Hime Matrix displays

Displays in which the format for alphanumeric readouts is in single rows, multiple rows, and columns, forming matrix formats for graphical and pictorial presentations.

Himi Large-screen displays

Flat-panel displays which present alphanumeric and graphical information in large, picture-on-the-wall formats and sizes.

Himk Miniature displays

Very small displays usually associated with visually-coupled control- display systems often mounted on a helmet or visor.

Himm Multiple displays

Display presentations (on panels or wall) which employ more than one display surface to present information about a particular event or status condition; typically, some integration of information across displays is required.

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Three-dimensional displays

Displays which, through the use of such techniques as holographic technology, 3-D microcomputer video graphics and 3-D graphic displays, and simulation of wireframe-like forms, produce dynamic, stereoscopic displays.

3-D displays Himoa

Stereoscopic displays Himoa

Display sense modes Hio Those human sense modalities used or required in sensing information from various display types.

Visual displays Hioc Displays in which the human visual sense modality is the primary sensor.

Tactile displays

Displays in which the human skin, or tactile sense modality, is the primary sensor; sensation may be passive (skin is stimulated) or active (direct touch), and perception may be one of pressure, vibration, texture, heat, etc.

Vibratory displays Hioec

Displays in which perceived sensation originates from vibrotactile stimulation, resulting from changing patterns of pressure to the skin.

Touch-screen displays Displays which incorporate the control action directly with the associated displayed information; for activation, the user either touches the displayed item of interest, or points to it with a special device, such as a "light pen."

Multi-sensory displays Displays which incorporate presentations utilizing more than one sense modality, such as the visual and aural.

Display location Location of a display with respect to the human eye, or with respect to other displays and controls that Hia are functionally related.

Helmet-mounted displays Displays mounted upon a helmet, presenting information usually to only one eye, and having a "see-through" property such that the viewer may see through the display to other objects in the general field of view.

Cockpit displays Hiae Displays mounted on surfaces within an aircraft cockpit, either on central, side, or overhead panels.

Glass cockpit Higea

Hiqg Head-up displays

Displays which present information projected on a transparent screen at eye level, allowing a vehicle operator (pilot) to obtain the information without losing visual contact outside the vehicle, i.e., keeping his head "up."

Hiqi Visually coupled displays

Displays designed to show any information currently being viewed (elsewhere) by the eye of the user/operator.

Hiqia Head-coupled displays

Hk Control-display integration

Designs which require close coordination of control input and display feedback; e.g., activating a tracking control device and noting position change information on a visual display.

Hkc Control-display systems

Systems which require the integration of controls and the displays which report the results of control actions usually for continuous tracking functions.

Hke Control-display dynamics

Physical relationship between controls and displays in closed-loop designs concerning degree of feedback, display update rate, relative movement of control to display representation, and so forth.

Hkg Control-display lighting

The manner in which control-display installations are illuminated for daytime and nighttime operations considering other visual-control tasks to be performed by an operator.

Hki Control-display compatibility

The degree to which the controls and displays used in performing a particular man-machine function interact such that human performance is enhanced rather than degraded.

Hm Workplace design

The spatial and environmental design of the workplace area, primarily dependent upon the characteristics of the specific user group and the manner in which the workplace will be used.

Hmc Work station design

Concerns specific work place or station, and involves the use of anthropometric data, reach and clearance envelopes, user position relative to work surface, position of the human body (standing or seated), and means of support.

Hmca Computer work station design

Hmca Operator work station design

Hme Office automation

The use of equipment and systems designed to automate the information generation, processing, distribution, and storage functions of the office administration process.

Ho Vehicle engineering

The design discipline concerned with human-vehicle control-display interfaces, successful accommodation of human capabilities and limitations, and optimization of performance.

Hoc Cockpit automation

The use of computers to perform, or to assist the aircrew in the performance of, certain functions or tasks in order to relieve aircrew task loading and improve overall system performance.

Hoca Fly-by-wire

Hoe Windscreen design

Design of aircraft windscreens (pilot canopies) so as to provide maximum pilot protection, minimum visual distortion or loss of transmissivity, and display projection capability.

Hog Seat design

Design of aircraft seats with regard for pilot anthropometrics, safety, comfort, visual requirements within and without the cockpit, and emergency ejection requirements.

Hq Systems engineering

The combination of various engineering disciplines and their specialized areas of expertise into an integrated engineering effort to develop a system product functionally responsive to stated operating requirements.

Hqa Equipment engineering

Hqa Weapon systems engineering

Hqc System design / development

Design/development process in which current (or projected) technology is focused on the mission and functional requirements provided so as to evolve and realize a design that will meet all requirements within time/cost constraints.

Hqca Weapon system design

Hqcc System requirements

Mission and functional requirements established for a particular system concept, along with design constraints for guiding system design and development, and, ultimately, to assess the effectiveness of the design.

Hqcca Design criteria

Hqcca Equipment requirements

Hqcca Weapon system requirements

Hqce Design aids

Various systems, techniques, and materials which aid in the design process.

Hqcec Computer-aided system design

Use of highly sophisticated computer programs which store physical and environmental data, known parameters, relationships, principles, and rules to aid in system design.

Hqceca CAD / CAM

Hqcee Design guidelines

Guidelines provided as a part of detailed system design specifications, involving use of human capabilities, use of certain technologies, and the performance levels established for acceptable design approaches.

Hqcf Equipment design

Design of various equipment units, based on requirements documentation, functional definitions, task analysis data, and human engineering principles and guidelines.

Hqcg Tool design

Design of various tools (generally, hand tools) for human use with regard for anthropometrics, biomechanics of the human hand, force application, finger grip, convenience factors, etc.

Hqci Safety design

Attention in the design process to removing or minimizing conditions which contribute to accidents, injuries, health hazards, or damage to equipment.

Hqck Simulator design

Developing simulator device requirements, determining the functions (tasks) to be simulated, establishing acceptable level of realism within cost constraints, specifying human-machine dynamics, and designing simulated actions.

Hqcm System redundancy

The design practice of duplicating certain components or functions within a design to improve reliability and provide a defense against system failure.

Hqco Man-rated

A machine or equipment designation which indicates an established equipment/system criterion for qualitative and/or quantitative requirements for human operation.

Hqcq System simulation

Use of computer simulation to explore/test various design alternatives in a system's intended environment in order to gather objective data to aid decision making in the system design process; use of a simulator as a design tool.

Hqcs Design innovations

Unique or creative design concepts, techniques, or products, involving hardware or software technology, or innovative collaborations of man and machine in fulfilling particular system functional requirements.

Hqcu Realism / fidelity

A measure of the degree to which the design of a simulator system reproduces the control, display, motion, response, and surrounding environmental dynamics of an actual hardware system in its intended operational environment.

Hqcw User friendliness

A designed-in characteristic of computer systems, generally describing the relative level of ease with which a user can operate the system without direct support or concerted study.

Hqe System modification

The process of redesigning, updating, or otherwise altering an operating system due to original design shortcomings, or to provide new or additional capability to extend its service life.

Hqec System modernization

Modification of a system to bring it up to meet newer standards, or to introduce new capabilities, as a result of technological or other advances.

Hqg System performance

A general term which may refer to any of various performance standards or measures applied to a wide variety of mechanical, human-machine, administrative, or other systems.

Hqgc System effectiveness

A complex measure of the degree to which a system can consistently meet its primary mission requirements, when configured, operated, and supported as originally intended.

Hqgca Crashworthiness

Hqgca System hardness

Hqgca System reliability

Hqgca System survivability

Hqge System performance degradation

Gradual or rapid reduction in system performance due to such factors as battle damage, age of equipment, human error, environmental effects, lack of spare parts, improper maintenance, etc.

Hqgg System / equipment maintainability

Measure of the ability of equipment and systems to be easily maintained and/or restored to an acceptable level of operational performance following a malfunction (may be stated as the Mean-Time- To-Restore [MTTR]).

Hqgga System readiness / availability

Hqgga System supportability

Hqgga System sustainability

Hqggc System maintenance requirements

Results of analytic studies to determine/forecast periodic repair actions likely to be necessary per unit time, so as to develop manning and training requirements for maintenance personnel.

Hqggca Equipment maintenance requirements

Hqgi System compatibility

A measure of the degree to which a system or subsystem is functionally compatible with other components or subsystems with which interaction is required to achieve system objectives.

Hqgk Computer response time

The time required by a computer to accept input information, complete any necessary processing, and make a response.

Hqi System test / evaluation

That essential part of system development involving testing the system in a context and environment closely approximating its intended operational one, and assessing the degree to which system requirements are met.

Hqia Equipment test / evaluation

Hqia Weapon system test / evaluation

Hqic Operational performance test / evaluation

Test/evaluation procedures sited in the operational environment of the system or equipment to be tested, with the intent of evaluating the functional acceptability of the test item.

Hqk System obsolescence

A process, or state, in which a system's worth or viability becomes diminished due to technological progress, change in mission or in tactical/strategic objectives, or a reduction/elimination of original need or threat.

Hqka Equipment obsolescence

Hs Facilities engineering The process of determining requirements and conceiving design approaches for developing necessary facilities to support the operation and maintenance of warfare systems.

Hsc Facility requirements

Identified as part of the facilities engineering process, the various requirements established for facilities support by assessing particular equipment or system design.

Hse Facility design

The design and development of facilities to support one or more warfare systems or various equipment in compliance with support system facility requirements documents.

Hsg Facilities maintenance

The support function of maintaining the physical spaces comprising a facility; includes "housekeeping" activities on ships.

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INFORMATION PROCESSING / COGNITION

K INFORMATION PROCESSING / COGNITION

The broad category of human cognitive processes as they are involved in the various techniques of processing information presented in different forms and interfacing different sense modalities.

Kc Types of information

The various categories (modes, forms, purposes) of information presented to the human sensor, processor, and decision maker.

Kcc Verbal information

Information transmitted using a spoken language (words), generated by the human voice or a computersynthesized voice.

Kcca Voice information

Kce Visual information

Information received through the human visual sense modality.

Kcg Graphic information

Information presented in pictorial form using graphs, curves, bars, line charts, pie charts, etc.

Kci Technical information

Information which provides scientific or engineering specifications on the functional, operational, and maintenance characteristics of a hardware and/or software system.

Kck Tactical information

Information on the status of friendly and adversary forces with respect to number and position of forces, strengths and weaknesses, environment, weather, topography, geographic relationships, order of battle guidelines, etc.

Kcm Intelligence information

Generally classified information which typically deals with an adversary's warfare capability, plans, policies, intentions, defensive and offensive capability, and sometimes political and economic conditions.

Kd Information requirements

Requirements related to types of information, form of presentation, update rate, display mode, etc., which are deemed necessary for security or for specified levels of human control-display performance and decision-making.

Kdc Input data requirements

Requirements for types, formats, and presentation rates of data needed as input in order to perform specific human or human-machine tasks.

Kf Information acquisition

The process of seeking, discriminating, and acquiring desired types and quantities of information so as to increase the level of knowledge concerning a particular subject.

Kfa Information seeking

Kg Information flow

Movement of various types and quantities of information into or through a system; specifically, the amount of information required to decide between two equally-likely alternatives, measured in bits, per unit time (seconds).

Ki Information processing

Process in which information is sensed according to perceptual and memory cues, then analyzed by various decision-response mechanisms, and action is taken through response mechanisms, all of which is mediated by attention level.

Kic Information processing strategies

Various approaches, methods, or logical orders by which information may be perceived (sensed), assimilated, analyzed, and interpreted, and which have relative value in achieving a response state or objective.

Kie Information classification

Generally, the technical process of classifying various types of information according to subject matter, physical properties, quality, reliability, etc.

Kig Signal processing

The processing of input signals on the basis of such parameters as frequency, amplitude, bandwidth, and various combinations of these parameters.

Kigc Signal detection

Generally, the process of distinguishing meaningful signal inputs from extraneous inputs, as a ratio of the signal to the background noise.

Kige Signal classification

The process of assigning a signal (or its emitter) to one of several possible categories as a function of its specific physical properties and characteristics (frequency, harmonics, pulse rate, bandwidth, etc.).

Kii Pattern recognition

Visual (or aural) discrimination of a known order, or form, of information from a background of "noise," or extraneous input.

Kik Situational awareness

Degree to which the human operator is fully aware of the various stimulus fields, both immediate and peripheral, which surround his work environment, and is able to correctly interpret all data inputs and respond appropriately.

Kj Information characteristics

Various descriptors of a body of information and its manner of use, such as alpha-numeric characteristics, format, input-output levels, quantity, recency, throughput, perishability, credibility, intelligibility, error rate, loading, etc.

Kja Data characteristics

Kjc Data organization

The process of formatting, ordering, arranging, and controlling data and data sets in a manner that facilitates comprehension, manipulation, distribution, and management.

Kje Data gaps

Information missing from a set of data, creating the need for special statistical processing techniques to account for such "gaps".

Kjea Incomplete information

Kjg Multiple data sources

More than one source supplying separate data streams, which must then be integrated ("fused") for optimum utility.

Kjgc Data fusion

A process by which various types of data acquired from multiple sources is integrated and assimilated into a single display presentation (usually visual) or report, thus allowing full interpretation and assessment.

Kjge Data links

Data transmission from remote sensors through UHF links to command/ control centers for real-time presentation on display devices; also, the UHF links themselves.

Kji Readability / comprehensibility

An estimate of the difficulty a reader may have in reading and understanding textual or graphic materials (does not consider sensibility of content).

Kl Information-processing environments

Refers to the various conditions and circumstances surrounding the performance of the primary functions of information processing, and to the facilitative or disruptive nature of these conditions.

Klc Situation variables

Variables related to, or affecting, the general information-processing environment.

Klca Dynamic environments

Klca Situation complexity

Klcc Environment complexity

Measure of type and degree of complicating conditions surrounding the activity of information processing; e.g., encoding, transformations, noise, incomplete information, multi-mode processing, compression, information loading, etc.

Klce Probability

A measure of the degree to which it is likely (probable) that an event will occur, as opposed to alternate events which could possibly occur.

Klcg Uncertainty

The state or condition resulting from a lack of sufficient knowledge concerning the outcome of a particular event, or from equally probable alternative outcomes; lack of certainty or predictability about an outcome.

Klcga Unpredictability

Klci Risk

The probability factor involved in the occurrence of an undesirable outcome, or in the failure of a desirable outcome to occur.

Kle Multi-sensory inputs

Data inputs which simultaneously interface more than one human sense modality, usually visual and auditory.

Klec Information overload A level of information input which is beyond the human capability to apprehend and process effectively.

Kleca Sensory overload

Klg Real-time environments

Environments within which data are sensed, processed, transmitted, and displayed with delay time between the first and last events being measured in microseconds (i.e., essentially the immediate present).

Kli Information interference

Transmission noise present in one or more information channels, possibly generated by equipment, environment, or humans; "noise" is information present at output which was not intentionally part of input.

Klia Background noise

Klic Signal-to-noise ratio

The mathematical relationship between the level of the signal to be detected and the level of background noise.

Km Cognition

The state or condition of, together with the processes involved in, human awareness; includes perception, reasoning, conceiving, judgment, and comprehension.

Kmc Cognitive theory

A human learning theory; postulates existence of intervening central processes which are cognitive in nature; states that learning involves new ways of perceiving, rather than incorporating new responses into the behavior repertoire.

Kme Cognitive styles

The mode or methods by which a person organizes and classifies his or her perceptions of the environment to impose order on an otherwise random and confusing collection of events.

Kmea Cognitive patterns

Kmg Cognitive processing

The various mental activities involved in processing information: perceiving, reasoning, judging, conceiving, and understanding.

Kmga Mental processing

Kmgc Inference

A judgment, prediction, or conclusion reached on the basis of former judgments, outcomes, and experiences.

Kmgca Logical inference

Kmge Intuition

Direct and "spontaneous" perception, judgment, or knowledge, arrived at without prior conscious cognition or reflective thinking.

Kmgea Instincts

Kmgg Reasoning Logical ("rational") thinking.

Kmggc Common sense reasoning Reasoning based on practical relationships, judgments, experiences, and values, rather than on formal or technical principles.

Kmgge Inductive reasoning Reasoning which derives a whole from a part; reasoning from specifics to generalities.

Kmgi Subjective judgment

Human judgment based solely upon internal, or personal, referencing, without consideration of objective, external information.

Kmgk Mental imagery Subjective imagery formed by mental visualization of previously experienced events or things, or of future events based on past experience; eidetic imagery involves especially clear, detailed imagery after long passages of time.

Kmi Cognitive mapping A perceptual representation of a given stimulus environment, developed by a human based upon available cues and individual expectancies.

Kmk Cognitive responses

Responses made as a direct result of human mental activity involving perceiving, reasoning, conceiving, judging, and comprehending.

Kmm Cognitive performance A measure of the quality of a cognitive response or response set as assessed by an external criterion of performance.

Kmmc Cognitive overload

A level of cognitive input, combined with associated response time demands, which exceed the human capacity to process within acceptable error margins.

Kmme Mental ability

Broad measure of human cognitive capability, usually indicated in standardized mental ability units, or Intelligence Quotient (IQ) scores.

Kmmea Intellectual ability / capacity

Kmmg Marginal mental ability

That level of mental ability represented by a score of less than 90 on the ASVAB or other similar test of mental ability.

Kmmga Category IV

Kmo Comprehension

The act or process of understanding a relationship, rule, principle, state, or condition through cognitive activity.

Kmoa Understanding

Kmoc Language comprehension

The act or process of understanding the meaning of words and relationships, verbal and non-verbal cues, and symbolic rules.

Kmocc Speech comprehension

The act or process of understanding verbal (voice) communication, either directly or through telecommunications.

Kmocca Verbal processing

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Kmocca Voice / speech processing

Kmoce Reading comprehension

The act or process of understanding textual or graphic materials, usually measured in terms of reading grade level (RGL).

Kmocea Text comprehension

Kmoe Image recognition / processing The act or process of recognizing, or otherwise processing, electronic images, usually visual or aural.

Kmoec Symbolic processing

The use of symbols or names to represent computer programming instructions, rather than alpha or numeric codes.

Kmq Creativity The human ability to conceive an idea, solution, or application which is new and unique, whether in scientific, technical, or artistic contexts. Ko Learning

Broad term encompassing concepts, theories, principles, methods, and procedures directed toward explaining or predicting the processes by which humans acquire knowledge; involves stimulus- response sets of learning events.

Koa Knowledge acquisition

Koa Knowledge enhancement

Koc Learning theory

Refers to a large body of theoretical concepts exploring the process of learning; there is no one generally accepted theory of learning.

Koe Learning strategies A perceptual pattern of past experiences, possibly "imprinted" in the human cognitive structure, to which current and future experiences are referred for interpretation and learning.

Koea Study strategies

Kog Learning processes

The various processes involved in the cognitive activity of acquiring new knowledge, skills, and abilities; i.e., knowledge acquisition.

Koi Learning styles Individualized approaches to the process of learning, evolved over time as a function of experiences, reinforcements, and expectancies.

Kok Learning ability

The ability of the human to acquire (or reacquire) particular types of stimulus materials, and to meet a criterion of performance as a function of elapsed time (or trials).

Kom Learning rate

The rate of change in the behaviors being exercised as a function of successive units of practice over the course of the learning period.

Koo Learning difficulties Inhibitors or impediments to the learning process stemming from human factors, environmental conditions, procedures and materials, mode of presentation, etc.

Koq Experience

(a) Skill or understanding resulting from having lived through events, or from practice; (b) the whole of all mental phenomena which constitute consciousness at a particular moment.

Koqc Experience-based learning

Learning which occurs through direct participation, practice, or exercise performed in the actual (real) stimulus-response environment.

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Koqca Job-related learning

Kos Relearning

Reacquisition of skills, knowledge, or abilities which were lost or degraded due to lack of practice, forgetting, or behavioral extinction.

Kow Conditioning

The process of learning in which a particular stimulus is paired in time with a desired response, and the behavior then reinforced either positively or negatively to achieve repetition of that response.

Koy Skills learning

The acquisition (learning) of particular skills or abilities, practiced to a criterion level of performance that is defined as satisfactory.

Koya Skill acquisition

Koyc Skill degradation / perishability

Decrement in performance capability in a particular skill area due to various factors, including lack of practice, environmental inhibitors, fatigue, loss of motivation, etc.

Koye Skill retention

The goal or process of retaining a particular performance capability or level through use of various skill maintenance techniques, such as periodic exercise and practice.

Kp Decision making

The weighing of known optional responses to a problem or situation in terms of relative desirability, and then selecting one option under varying conditions of uncertainty.

Kpa Choice

Kpc Decision theory

Use of probability, Bayes' Theorem, and notion of outcome utility to develop a mathematical basis for selecting among alternative courses of action under varying conditions of uncertainty.

Kpe Decision strategies

Schemes, rule sets, or guidelines adopted for use in selecting a decision alternative; usually are based on previous experience with a similar class of related problems, and involve identifying substrategies which are combined.

Kpg Decision-making processes

Human or human-machine process involving problem definition, goal definition, strategy selection, alternative (option) generation, alternative assessment, and alternative selection under varying levels of uncertainty.

Kpi Operational decision making

Decision making in which the conditions, rules, strategies, objectives, and level of uncertainty associated with alternative responses are related to, and characterized by, the operational (changing) environment.

Kpic Tactical decision making

Decision making in which the circumstances are characterized by the comparatively short-term, geographically near conditions of the tactical military environment.

Kpie Strategic decision making

Decision making in which the circumstances are characterized by the relatively long-term, geographically distant conditions of the strategic military environment.

Kpk Decision aids

Various guides, devices, materials, or equipment, often computerized, which provide decision alternatives and possible consequences so as to enhance the human's ability to make proper decisions in a timely manner.

Kpkc Computer-based decision aids

Decision aids whose functions are computer-driven; aid in soliciting and organizing problem information, identifying relevant alternatives, and in deducing paths of solution, generally through an interactive dialogue.

Kpm Decision support systems

Systems which aid human decision making in integrating large amounts of information, strategy selection, outlining options and alternatives, predicting outcomes, and aiding in option selection.

Kpo Decision situation taxonomy

A classification system which organizes and relates the major components of the decision process for a particular situation (e.g., input conditions, options, level of uncertainty, possible outcomes).

Kr Problem solving

The process of understanding a problem and then determining the appropriate sequence of available options leading to a solution or desired outcome.

Krc Problem-solving theory

Theoretical precepts and postulates concerning the manner in which humans perceive problems, analyze their properties, and conceive approaches for their solution.

Kre Problem-solving strategies

Various formalized approaches for analyzing a problem, and which increase the likelihood of finding an acceptable solution within an acceptable time frame.

Ks Intelligent systems

Computer systems which store large quantities of information and use a set of logical rules to address a particular problem and provide a recommended solution; the knowledge base is increased with successive successful exercises.

Ksc Knowledge-based expert systems

Computer-based systems capable of interacting with a stored body of "expert" knowledge (facts, relationships, procedures) in a particular subject area to address particular problems and recommend courses of action.

Ksca Blackboard systems

Ksca Case-based reasoning systems

Ksca Expert systems

Ksca Inference engines

Ksca Knowledge-based systems

Ksca Reasoning systems

Ksca Rule-based systems

Kse Knowledge engineering

Eliciting and utilizing expertise and judgmental knowledge acquired from humans considered to be "experts" or skilled problem solvers; used in conjunction with knowledge-based systems.

Ksg Knowledge representation

Techniques or methods for managing uncertainty in expert systems, through the representation and classification of imperfections in knowledge bases (e.g., vagueness, uncertainty, conjecture, degree of transitivity).

Ksi Artificial intelligence Broad concept referring to the capacity of computers to store and process large quantities of information, and interact with a human operator or decision maker in developing strategies, exploring options and weighing alternatives.

Ksia AI

Ksk Fuzzy thinking

A characterization of normal, imprecise human thought processes, as distinguished from the strictly logical "thinking" characteristic of computers, with the intention of incorporating the element of uncertainty in the process.

Kska Fuzzy controllers

Ksm Neural networks

Software development incorporating artificial intelligence, cognitive science, computer engineering, and neurobiology to develop adaptive neural nets for use in simulating (emulating) various human cognitive processes.

Ku Memory

The neurobiochemical "storage" in the human brain of an individual's experiences; also a specific instance of psychological recall ("remembering") of such experience.

Kuc Memory processes

The mental or psychological processes involved in the recalling of past experiences; consists of four phases -- learning, retention, recall, and recognition.

Kue Short-term memory

The recall of specific material immediately after presentation of the material; distinguished from long-term memory by rapid decay and a limited amount of retained material over time.

Kug Long-term memory

The recall of events or associations long after their occurrence; distinguished from short-term memory by a slow rate of decay and a substantial amount of retained material over time.

Kui Memory enhancement

Use of various learning paradigms, associative relationships, and other techniques and aids to enhance memory retention and recall.

Kuk Recall

The mental or psychological reconstruction or "replay" of previous experience or previously learned materials; the functional part of the process of "remembering," or retrieving previously learned knowledge, skills, responses.

Kuka Knowledge retrieval

Kv Authoring aids

Textual or graphic materials which guide, assist, or otherwise facilitate the generation of documents, courseware, or other forms of authored materials.

Kvc Computerized authoring aids

Computer software which allows for storage of text and graphic fields with a rule-based mode for interacting with the human author to generate various types of documents, courseware, and other authored materials.

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HUMAN PERFORMANCE

M HUMAN PERFORMANCE

Concerns the effectiveness of human sensory, perceptual-motor, neurological, and psychophysiological processes in the performance of task, job, and military mission requirements.

Mb Human performance capabilities

Human capacity and performance readiness (maximum effectiveness under optimal conditions of training) with respect to particular tasks or activities.

Mbc Job performance

Concerns the ability to perform job tasks relative to expected standards and within existing environmental and social conditions.

Mbe School performance

Concerns the ability to meet scholastic and behavioral standards in a formal educational environment.

Mbg Training performance

Concerns the ability to perform in a particular subject area to the level established by training/learning objectives or standards within expected (allowable) time periods.

Mbi Test performance

Concerns the ability to respond correctly to questions, tasks, or other requirements in a test situation; includes tests of mental or physical ability.

Mbk Career performance

Concerns the ability of an individual to progress along a particular career path according to established interim career objectives.

Mbm Operator performance

Concerns the perceptual-motor ability to perform activities relative to operating equipment or devices to meet associated operational or output requirements.

Mbo Soldier performance

Concerns the ability of a soldier to perform assigned activities or duties to expected or required standards.

Mboa Soldier capabilities

Mbq Vigilance

That human attribute characterized by one's being alert, watchful, and ready to respond to any alarm, disturbance, or intrusion.

Mbqc Attention

Acute sensory focusing on object, task, or situation at hand, accompanied by the ability to effectively ignore distracting effects of extraneous objects/events; ability to effectively perform more than one activity at the same time.

Mbqe Alertness

That human attribute characterized by sharpened sensory awareness, quick perception, and readiness to respond to any external stimuli.

Mbqg High-arousal states

High levels of perceptual/cognitive activity in response to external stimuli, involving heightened brain activity, increased hormonal secretions, and generally heightened alertness and perception.

Mbs Human response time

The amount of elapsed time from the onset of a stimulus to an appropriate (not necessarily accurate) response.

Mbsa Reaction time

Mbv Performance enhancement

Use of various techniques and devices for obtaining small, but significant, increases in human performance.

Mc Human performance measurement

Use of a variety of methods and techniques for assessing levels of various types of human performance, which may be applied to many uses, ranging from training evaluation to man-machine design assessment.

Mcc Performance objectives

Criterion levels of performance established for assessing training progress or accomplishment of specific job requirements for purposes of assessment or evaluation.

Mce Performance standards

Specific levels of performance established as criteria for successful, or minimally acceptable, performance.

Mcg Performance requirements

Statements, often quantified, of required performance levels, given in terms of job-relevant measures which indicate minimum (or target) performance levels.

Mci Job performance evaluation

Evaluation of job performance levels, using job-relevant variables which can be compared or assessed against a criterion value of success or acceptability.

Mcia Performance appraisal

Mck Performance feedback

Information provided to an individual on the quality of his/her performance; may be immediate (e.g., performance test), or delayed, (e.g., yearly performance review); aids performance, and is an important adjunct to human learning.

Mcm Performance monitoring

Techniques, both intrusive and nonintrusive, for observing or recording the performance of an individual or group in a particular experimental or job-task situation.

Mco Performance data

Data collected on test or job-relevant variables (performance time, accuracy, time-on-target, number of hits, etc.) which reflect human performance capabilities under various subject and environmental conditions.

Mcq Performance prediction

Prediction of performance (job, test, etc.), using a predictor variable which has been validated on an external criterion variable representing the behavior to be predicted.

Me Human performance effectiveness

Measure of the level of human performance attained (output), compared with the cost of the resources (input) necessary to attain it; a measure of achieving maximum individual capability for a given training experience input.

Mec Performance variables

Variables which are valid representations of types and levels of performance in a particular context (e.g., time, accuracy, units produced per hour, amount of waste, rated quality of decisionmaking, etc.).

Mee Performance limitations

Constraints on attainable levels of performance due to various limiting variables related to the individual (level of training, experience, fatigue) or to the environment (temperature, motion, noise).

Meg Performance degradation / decrements

Measurable decrease in performance level due to psychological or physiological factors (excessive stress, high noise or vibration levels, lack of practice, poor leadership, fatigue, loss of motivation, etc.).

Mei Individual differences

"Naturally" occurring differences among individuals which can be expected to account for differences in their performance.

Mek Human error

A man-made mistake, or deviation (inadvertent or deliberate) from what is known to be an appropriate, correct, or acceptable response, and which can result in delay and/or loss of effort and product.

Mekc Operator error

A mistake, or deviation from established procedures in operating a device or equipment, which can result in a degradation in system performance.

Meke Pilot error

Mistakes, or deviations from accepted procedures, in performing the functions associated with aircraft operation (piloting), which can result in consequences ranging from loss of time to equipment damage and loss of life.

Mf Attitude assessment

Use of various types of surveys and inventories to assess an individual's or group's predisposition to have particular attitudes to certain stimuli (concepts, values, objects, persons).

Mfc Attitudinal change

The process and effects involved in the altering of an individual's or group's predisposition to regard particular stimuli (objects, concepts, propositions, persons) in a particular manner.

Mfe Attitudes

Learned predispositions to perceive or regard (either positively or negatively) particular objects, concepts, people, values, etc., in certain ways; attitudes have cognitive, affective, and behavioral components.

Mfec Attitudes toward peers

Learned predispositions toward individuals in one's own age, social, occupational, or economic group.

Mfed Attitudes of youths

Learned predispositions of youths (less than 18 years old) toward values, concepts, people, propositions, etc.

Mfef Attitudes of minorities Learned predispositions of minorities toward programs, concepts, ideals, groups, practices, etc.

Mfeg Attitudes towards minorities

Learned predispositions of nonminorities toward minority individuals or groups.

Mfei Attitudes of females

Learned predispositions of females (as a de facto "minority") toward policies, programs, values, practices, etc.

Mfej Attitudes toward females Learned predispositions of male individuals and groups toward females.

Mfel Attitudes toward policies Individual and group predispositions toward policies and associated values established in an organization.

Mfem Attitudes of communities

Collective, learned predispositions of communities toward various entities important to community life (racial balance, social programs, quality of life, services, controlled growth, etc.).

Mfeo Attitudes toward training methods Learned predispositions of students and trainees (or instructors) toward certain training methods or concepts.

Mfep Attitudes toward military service Learned predispositions of individuals or groups toward the military and toward serving in it.

Mfer Attitudes toward military benefits

Learned predispositions of military personnel and spouses toward benefits provided by a particular Service.

Mfes Attitudes toward technological innovation Learned predispositions of individuals or groups of workers toward the introduction of new technology into the work environment.

Mfeu Attitudes toward change

Individual and group predispositions toward an action or intervention which embodies change in organization, values, job duties, procedures, benefits, etc.

Mh Job aids

Any devices, tools, manuals, guides, etc., which can improve or enhance performance sufficiently to justify its cost.

Mha Enriched job aids

Mha Fully proceduralized job aids

Mha Hybrid job aids

Mhc Maintenance / troubleshooting aids

Devices, tools, manuals, and guides which aid the maintainer in performing preventive and corrective maintenance (includes troubleshooting) on machines and equipment.

Mi Psychophysiological factors

Psychological and physiological factors which influence an individual's capacity to perform work within given task, social, and physical environments.

Mic Adaptation

The process by which stimuli sensed by an individual through a particular sense modality are rendered essentially neutral as a result of continuous exposure to those stimuli.

Micc Physiological adaptation

Adaptation to certain environmental conditions, wherein a particular attribute is no longer sensed consciously due to prolonged stimulation.

Mice Psychological adaptation

Generally, any beneficial attitudinal or behavioral modification in an individual necessary to meet situational or environmental demands and conditions.

Mie Stress

General psychophysiological response syndrome in reaction to intense frustration, danger, injury, disasters, crowding, high noise levels, information overload, physical discomfort, etc.

Miec Combat stress

A traumatic condition precipitated by fear and anxiety associated with combat, and characterized by various anxiety and somatic (bodily) disorders.

Mieca Battle fatigue

Mieca Combat shock

Miee Job stress

Stress produced by a job which, usually, has either excessive task-related, social, or environmental demands; alternatively, can be caused by jobs in which inactivity and boredom are present.

Mieg Physiological stress

Stress which is produced directly from physical environmental conditions, or physical demands.

Miegc Body temperature Temperature of the human body, thermally regulated to a normal 98.6 degrees F (37.0 degrees C).

Miegca Cold stress

Miegca Heat stress

Miei Psychological stress

Stress which is due primarily to factors more psychological than physical, such as cognitive overload, goal attainment frustration, excessive crowding, high anxiety levels, personal or social conflict, etc.

Miek Coping behavior

Human compensating behaviors, either spontaneous or calculated, which help to mitigate the effects of stressful or anxiety-producing conditions.

Mieka Coping strategies

Mig Loss of consciousness

A physiological state in which the individual no longer senses or responds to stimuli from the external environment; the cessation of the organism's stimulus-response mechanisms.

Mii Body motion

Movement of all or part of one's body, as perceived by the individual.

Miia Kinesthesia

Mik Fatigue

A mental or physical condition of exhaustion, debility, and reduced performance capacity due to overwork or excessive mental or physical exercise.

Mim Rest

Restorative effects associated with sleeping and general inactivity, a high level of environmental comfort, balanced diet, and low levels of exercise.

Mio Sleep deprivation

Prevention of sleep to a critical degree (around 4 days), resulting in a high-stress condition characterized by a decrease in performance, drop in EEG alpha activity, intense irritability, and, eventually, psychotic behavior.

Mioa Lack of sleep

Miq Sensory deprivation

Experimental or other reduction of all sensory stimulation for an individual to a critical degree, resulting in anxiety and other aberrant psychophysiological effects.

Mis Restricted body movement

Normal human body movement that is restricted by surrounding space, clothing, or equipment to the extent of causing anxiety and stress.

Miu Confined spaces

Physical spaces in which a human's normal body movements are unduly restricted so as to cause anxiety and stress reactions associated clinically with claustrophobia.

Miw Psychological factors

Includes any psychological conditions or circumstances which influence an individual's capacity to perform work within given task, social, and physical environments.

Miwc Fear

A strong aversive emotion involving the real or imagined perception of threat or danger.

Miwe Anxiety

Feeling of insecurity, doubt, uneasiness, and fearfulness caused by a wide range of stimuli (real or imagined); results in increased muscle tension and other physiological responses, and, ultimately, in reduced cognitive functioning.

Miwg Disorientation

Partial or complete loss of the ability to perceive and/or comprehend spatial, kinesthetic, temporal, or psychosocial relationships.

Mk Physical factors

The physical properties of the human body which contribute to individual differences in job or task performance, and which may, therefore, influence personnel assignments and the design of materials and equipment.

Mkc Anthropometric measurements

Size and dimensional attributes of the human body, and the scientific measurements thereof, which are structural (static) and functional (dynamic), and are reported by gender for various cultures or populations.

Mkcc Body size

Human body measurements in percentile values in centimeters for length, depth, and breadth dimensions (chest, shoulders, forearm, etc.), and for circumferences and surface dimensions (neck, chest, trunk, biceps, forearm, etc.).

Mkcca Body height

Mkcca Body weight

Mkce Limb extension

Measures of the extension of human limbs, given in terms of restrained and unrestrained reach, with extension distances (cm and inches) in percentiles for males and females for various workspace envelopes.

Mkcea Arm extension

Mkcea Leg extension

Mkcea Reach

Mke Physical capability

A measure of the ability of an individual to perform physical work or tasks requiring strength (lifting, climbing, moving, carrying, etc.).

Mkec Physical strength

A measure of an individual's physical (muscular) ability to perform such tasks as lifting, moving, transporting, holding, steadying, etc.

Mkee Physical tolerance The capacity of an individual to endure, or adapt to, physical discomfort, and to maintain high levels of energy output and performance.

Mkeea Endurance

Mkeea Stamina

Mkeg Work capacity

The capacity of an individual for energy output over time, defined as the ratio of work output over emergency consumption x = 100.

Mkei Physical effort / exertion The amount of physical effort, or energy output, expended upon, or required for, a particular task.

Mkek Body mobility

A measure of the ease with which an individual can move all or parts of his/her body in purposeful motion.

Mkem Physical variability

Variance in the physical characteristics of individuals with respect to physical capacity, strength, stamina, tolerance, fitness, etc.

Mkeo Physical fitness

A measure of the physical ability and readiness of an individual to perform specified tasks, or participate in activities, requiring particular fitness levels.

Mkg Pregnancy

The female state of being pregnant; i.e., carrying in the womb a developing embryo or fetus, culminating in childbirth after approximately 9 months.

Mki Nutrition

Nourishment received, or the process of receiving it, through the ingestion of food.

Mkia Food

Mkk Mental illness

A broad term for a wide range of psychological disorders of either organic or nonorganic origin, whose associated behaviors are sufficiently dysfunctional to require professional help.

Mkka Psychiatric disorders

Mkkc Depression

Psychological disorder, ranging from mild, temporary, "situational" depression to chronic, severe, "clinical" depression; characterized by feelings of despair, helplessness, suicidial thoughts, and poor concentration and motivation.

Ml Sensory systems / processes Those human sense modalities, and the neurobiological systems which support them, involved in vision, audition, olfaction, etc., and the associated processes through which the human becomes aware of sensations.

Mla Perceptual processes

Mlc Auditory system

The human system involved in hearing sounds, having receptors with the capacity to perceive, discriminate, and localize sounds.

Mlcc Auditory perception

The ability of the human to perceive and discriminate sounds of various loudness levels (amplitude) and frequencies (pitch).

MIce Auditory-evoked response A brain response, assessed by EEG techniques, evoked through the use of an auditory stimulus.

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Mlcea AER

Mlcg Auditory disorders

Disorders of human hearing, primarily of two types: (a) nerve dysfunc-tion, resulting from damage or degeneration of mechanisms of the inner ear; and (b) conduction dysfunction, occurring in the middle or outer ear.

Mlcga Hearing loss

Mlcga Tinnitus

Mle Visual system

The human system involved in seeing objects, stimulated by radiant energy, ("light") in the electromagnetic spectrum.

Mlec Visual perception

The ability of the human to perceive, discriminate, organize, and interpret visual information under a variety of environmental conditions.

Mlecc Depth perception

The ability of the human to perceive distance between himself and objects farther away, as well as the three-dimensional appearance of objects arising from monocular and binocular visual cues.

Mlecca 3-D perception

Mlecca Spatial perception

Mlece Color perception

The visual differentiation among different spectral light wavelengths on the basis of hue (color), saturation (degree or purity of the hue), and brightness (the photometric intensity of the color).

Mlee Visual-evoked response

A brain response, evoked cortical potential, evoked through the use of a visual stimulus.

Mleea VER

Mleg Eye movement

The pivotal and rotary movement of the human eye, either as a result of the functioning of the extrinsic eye muscles during eye fixations, or the rapid, abrupt saccadic eye movements (saccades).

Mlei Visual acuity

A measure of the human ability to detect an object (detection acuity), or discriminate two closely spaced objects (resolution acuity), in the visual field.

Mlek Field-of-view

Area included in the visual field ranging from left eye peripheral vision to right eye peripheral vision, usually expressed as an angle subtended from the eye; may be stated in terms of horizontal or vertical field-of-view.

Mlekc Peripheral vision

Vision which takes place in the outer regions of the retina, the area of rods and color vision; non-foveal vision.

Mlem Visual adaptation

Ability of the eye to adjust to conditions of continued high stimulation (high brightness levels) or low stimulation (low brightness levels).

Mlemc Night vision

A scotopic visual condition attained after about 40 minutes of dark adaptation in which sensitivity of the eye increases and the threshold for stimulus detection decreases to optimal levels.

Mleo Visual disorders

Various visual anomalies, resulting from trauma, disease, or aging, which distort or degrade normal visual functioning.

Mleoc Color defectiveness

Inability to accurately identify certain colors, typically resulting in confusion with red and green hues (dichromatism), or with blues and yellows (tritanopia); defect found primarily in males (about 10%).

Mleoca Color blindness

Mlg Olfactory system

Human system of sense of smell; composed of olfactory cells as receptors located in the nasal cavities, the olfactory nerve, the olfactory bulb, or lobe, and the part of the cerebral cortex where the centers for smell are located.

Mlgc Olfactory perception

The perception and differentiation of various odors; sensitive to the detection of odors, but comparatively weak in discrimination and identification (the weakest sense modality in differentiating stimuli).

Mli Vestibular system

The human system involved in body orientation, motion, and maintenance of body equilibrium; involves the semicircular canals and vestibular sacs in the inner ear.

Mlic Vestibular perception

The sensing of linear and angular acceleration, and body attitude (orientation) with respect to the vertical; interacts with vision and with proprioceptors embedded in subcutaneous tissues.

Mlica Equilibrium

Mlie Vestibular disorders

Disorders involving loss of body equilibrium, disorientation with respect to the vertical, and misperception and misinterpretation of visual cues.

Mliec Motion sickness

Malady caused by "sensory rearrangement"; organs of bodily balance (eyes, joints, muscles, tendons) come into sensory conflict with the vestibular system responding to linear/angular movement, resulting in nausea and dizziness.

Mlieca Air sickness

Mlieca Sea sickness

Mlk Tactile perception

The perception of touch, pressure, vibration, pain, itching, cold, heat, etc., controlled by various types of receptors in the skin; categorized as passive touch (cutaneous sensitivity) and the more complex function, active touch.

Mlka Touch

Mlm Multi-sensory information processing The processing of sensory information from more than one sense modality, more or less simultaneously.

Mlma Multimedia interface

Mlo Sensory / perceptual performance Involves the ability to effectively sense, discriminate, and interpret various stimuli in a particular environment under near-threshold conditions.

Mloc Response latency

The time elapsed between stimulus onset and a response, usually with discrete trials; used as a measure of response strength.

Mn Perceptual-motor functions / processes Functions and processes associated with sensing, interpreting, and organizing information, and the motor behavior (muscle activity) taken in response. Mna Neuromuscular functions / processes

Mna Psychomotor functions

Mnc Psychomotor performance Involves the ability to coordinate perceptual and cognitive processes with motor activity.

Mnca Motor performance

Mncc Eye-hand coordination

The coordination of the visual sense with motor activity and control in performing fine, highly detailed tasks.

Mnce Manual dexterity

Skill and ease with which the hands are used, including fine-finger dexterity; involves the ability to grasp, transport, and manipulate small objects with great accuracy and finesse.

Mne Psychomotor monitoring

Use of direct measurement or observational techniques to monitor and record patterns of behavior resulting from a task requiring the coordination of perceptual or cognitive processes and motor activity.

Mo Neurological system

Human system composed of the central nervous system, including spinal cord and brain, peripheral nervous system, cranial nerves, and autonomic nervous system, which enable the human to receive information and make responses.

Moa Brain function / structure

Moa Neurological functions

Moc Brain processes

The various processes of the brain, providing cognition, neural coordination among the multitude of stimuli received from the various sense organs, and the formulation of motor responses.

Moca Brain activity

Moca Neural processes

Mocc Brain waves Brain responses measured in units of electrical potential, as with an electroencephalograph (EEG).

Moce Evoked brain response Brain response induced by the use of visual or aural stimuli; can be measured in terms of electrical potential, or other means.

Mocea Event-related potentials

Moe Brain monitoring

The monitoring of brain activity under various medical or experimental conditions, using such devices as an electroencephalograph (EEG), which charts electrical activity for eight sections of the brain.

Mq Cardiovascular system / processes

The human system composed of the heart, the circulatory system, and the autonomic nervous system, and responsible for blood flow through-out the body.

Mr Respiratory system / processes

The human system composed of the lungs and major veins and arteries, by which the blood is relieved of carbon dioxide and other gaseous impurities and recharged with oxygen.

Mrc Breathing

The process of inspiration and expiration of air into and from the lungs, controlled by the autonomic nervous system, by which the lungs exhale gaseous impurities and inhale fresh air with high oxygen content.

Mrca Respiration

Musculoskeletal system / processes

Human system consisting of the 206 bones in the body, the ligaments which hold them together, the skeletal muscles which give them movement, the motor and sensory nerves which control movement, and associated system processes.

Mtc Head movement

Movement of the human head, involving the biomechanics of medial and lateral rotation (horizontal plane), and flexion (vertical plane).

Mv Biophysiological procedures / techniques / measures

Various procedures and measures which use electrical techniques to stimulate and record bodily processes such as brain activity, stress level, work output level, cardiovascular function, etc.

Mvc

Mt

Bioelectrical procedures / measures

Various procedures which use electrical devices such as the electroencephalograph (EEG) and electrocardiograph (EKG) to record specific physiological functions of the body using electrical potential.

Mvca EEG

Mvca EKG

Mve Biomagnetic procedures / measures

Procedures involving the use of a magnetic resonating enclosure to produce biomagnetic measures of various physiological processes and conditions.

Mvg Biochemical procedures / measures

Procedures involving the use of various chemicals to mediate or control certain bodily reactions or functions, and as criterion measures of the effects of treatment initiatives.

Mvgc Drug applications

Use of drugs as antidotes to the effects of various conditions (e.g., chemical/biological agent exposure, motion sickness, etc.).

Mvgca Pharmacological agents

Mvi Psychophysiological procedures / measures

Procedures involving the use of bioelectric techniques to measure psychophysiological states, or as a means to effect control over certain physiological processes.

Mvia Biofeedback procedures

Mvk Medical procedures / diagnosis

Procedures involving the use of standard medical examination and laboratory tests to ascertain the health status of individuals and to diagnose health problems.

Mx Biomechanics

Branch of human biology concerned with various aspects of physical movements of the body and body members; includes kinesiology, which deals with human motion as a function of the construction of the musculoskeletal system.

Mxa Biodynamics

Mxc Crash dynamics

Effects on the human body of the forces involved in various types of impact crashes, as a function of body position and use of various types of safety and protection systems.

Mxe Diving physiology

The human physiology of underwater diving, involving the reaction of the human body to abrupt changes in atmospheric pressures as a function of dive time and rapidity of pressure change; considers symptoms and effects of decompression injury, and techniques for avoiding it.

Mxea Underwater physiology

Mxec Decompression

Exposure to, and effects associated with, a sudden, rapid decrease in atmospheric pressure (e.g., rupture of a sealed vessel at an altitude of 30,000 feet, or rapid rising of a scuba diver from a 100-foot depth to the surface).

Mxeca Bends

Mxeca Decompression sickness

DATA MANAGEMENT

N DATA MANAGEMENT

Concepts and architectures in the design, development, management, and manipulation of database systems using computer technology.

Nc Information systems by type

Various types of computer-based systems whose purpose is to store large quantities of information, and to retrieve, process, and output that information in a form consistent with user needs.

Nca Computer systems

Ncc Database systems

Automated systems dedicated to storing large quantities of information, sometimes subject-specific, according to specialized file systems, allowing the data to be manipulated according to various relational strategies.

Nce Information storage / retrieval systems

Computer systems designed to accept and store large quantities of data in particular subject areas; incorporates software which facilitates quick retrieval of information by specific user populations.

Ncea Computer storage / retrieval systems

Ncea ISAR systems

Ncea Information retrieval systems

Ncg Management information systems

Information systems designed to store types of information pertinent to a particular management function, and to allow the user to interrogate the system and obtain timely status outputs.

Ncga MIS

Nci Program management systems An information system designed to store data parameters pertinent to program management (action steps, projected completion times, completion milestones, resource allocations, expenditures, etc.), and facilitate timely status outputs.

Ng Computer system design / development Design and development of computer hardware and software to meet a particular requirement for storing, manipulating, processing, and retrieving data of a particular type, and for interacting with a particular type of user.

Nga Computerization

Ngc Computer system requirements

A set of requirements developed to guide computer design to fulfill user needs with respect to programming, operating (input/output), type and speed of processing, type and form of output, ease of operator use, etc.

Nge Computer system organization

The overall organization of the primary functions supporting a computer service, including data receipt and inputting, software selection and development, data processing, data output and delivery, user interfaces, etc.

Ngea Computer networks

Ngea Computer system architecture

Ngea Distributed architectures

Ngea Networks

Ngea Parallel architectures

Ngg Computer system construction

Process of designing and constructing a high-speed data processor with such components as input-output devices, machine language, stored programs, registers and memories, circuits, and electronic components.

Nggc Computer interfaces

Connections between one computer and other computers (computer networks), or between a computer and its peripherals (the visual display terminal, operator keyboard, etc.)

Ngi Computer system integration

That process concerned with functional integration of computer system components to achieve a compatible, operationally effective computer system; includes integrated software packages.

Ni Data entry

The fundamental process of inputting data into a computer using various methods, such as keyboarding, optical scanning, etc.

Nic Optical scanning

Use of an optical scanning device which "reads" specially formatted data forms (such as test answer sheets) and transforms them into digital form consistent with computer use; avoids inputting data by "keyboarding".

Nie Electronic data transfer

Transmission of data from one geographic location to another through the use of computer networks.

Nig Pen-based input

Direct computer input by means of writing "natural language" notes on a special pad with a special "pen".
Nk Data manipulation

A broad range of actions that could be taken on a data file, depending upon user need and software capability.

Nkc Data reduction

The process of reducing a set of data to a simpler form in order to facilitate a process such as storage, analysis, or printout.

Nke Data compression

Expression of data in a manner that occupies less space; involves using codes for different sets of characters (used mostly with text files).

Nkg Data conversion

Converting or transforming a data file, or set of files, from one format or language to another.

Nkk Database merging

Use of specialized software to combine two or more databases into one database, or set of files, to expand an existing database, or to form a unique database; also includes merge sorting.

Nkka File merging

Nm Computer system management

The general function of managing the operation and maintenance of a computer system, including its input, output, documentation, and software support subsystems.

Nmc Computer system / software documentation

A written description of computer system operations or of software; involves comments within the program, on-line documentation, reference cards, reference manuals, and tutorials to aid new users.

Nme Computer system maintenance

The periodic process in which system computer files are reviewed, updated, purged, reformatted, stored, etc., so as to maintain the timely effectiveness and capacity of the computer system.

Nmea System purging

Nmea System updating

Nmg Computer system security

Security protection of computer systems from various kinds of hazards, including machine failure, physical hazards (fire), operator error, unauthorized usage, computer vandalism, computer viruses, etc.

Nmga Database security

Nmga System privacy

No Computer software

Written computer programs, or sets of programs, which tell computers what to do; may be designed to fulfill a single specific task or multiple tasks; generally uses common types of programming languages.

Noa ADP software

Noc Software development

The technical process of developing a software program using programming languages, interpreters, and compilers to fulfill a general or specific user need.

Noca Computer programming

Noca Integrated software

Nocc Computer programming languages

The code languages used to develop computer programs; e.g., Pascal, BASIC, C, COBOL, FORTRAN, PL/I, etc.

Noce Computer programmer aids

Various types of aids and devices which assist a programmer in developing software using a particular programming language.

Nocg Object-oriented programming

Programming approach which: (a) identifies tasks/subtasks of the application, (b) programs each task as a descrete "object," and (c) enables, through the mechanism of "inheritance," the linking/combination of objects.

Noe Software maintenance

The on-going process of checking, correcting, updating, refining, extending, etc., computer programs to insure their continued useability.

Nog Software transferability The ability of computer programs to be functionally transferred from one computer installation to another.

Noga Software portability

Noi Off-the-shelf software

Software written to perform a particular action or function that is widely compatible with most available hardware configurations, especially personal computers.

Nok Software standards

Specific guidelines and quality standards established for developing programs and software to operate on various computer systems; ensures that overall operational effectiveness of a computer system will not be compromised.

Nom Database management software

Software designed to perform such database functions as entering data, modifying or updating data, and presenting output reports; provides for the addition and deletion of records.

Noma DBMS

Noma Database management systems

Noo Graphics / mapping software Software which provides for programming and controlling various types of plotters and dimensional printers.

Noq Statistical software

Software which allows statistical manipulation and testing of certain forms of data according to standard statistical formulae and organization.

Nos Desktop publishing software

Used with personal computers to design and print professional-quality typeset documents; generally more versatile, capable, and more complicated than word processing software.

Nou Word processing software

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Software which allows text and graphic files to be generated with the facility to merge, cut, paste, correct, move, format, control print fonts, print, etc.

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PROGRAM MANAGEMENT

O PROGRAM MANAGEMENT

Techniques and processes involved in planning, developing, administering, and assessing management programs related to personnel in research and development and in materiel acquisition.

Oc Research and development programs

Programs ranging from basic research to engineering development of prototype systems; usually funded by Category 6.0 dollars.

Oe Materiel acquisition programs

Acquisition programs having to do primarily with the procurement of hardware (or software) systems; also includes procurement of a personnel subsystem in the instance of manned systems.

Og Human systems integration programs

Programs which focus on the proper integration of major, contributing subsystems into larger composite systems; e.g., integrating sensor subsystems with command/control subsystems, or personnel subsystems with hardware subsystems.

Ogc HARDMAN

Navy program counterpart to Army's MANPRINT and Air Force's IMPACTS; dedicated to assessing and predicting the impact of new system procurements on demand for personnel and training resources.

Oge MANPRINT

Army program counterpart to Navy's HARDMAN and Air Force's IMPACTS; dedicated to early consideration in system design of the human element in the domains of manpower, personnel, training, human factors, and safety.

Ogg IMPACTS

Air Force program counterpart to Army's MANPRINT and Navy's HARDMAN; responsible for reviewing system requirements to ensure manpower/personnel/training/safety trade-offs have been planned for in the design/acquisition process.

Oi Program planning

A broad-ranged process of identifying program objectives and available resources, and developing task statements to deliver products at specific milestones so as to meet program objectives.

Oic Program requirements

Specific requirement statements (requirement documents) which detail the specific product, or outputs, expected from a program; may also include limitations, constraints, and special instructions.

Oie Program objectives

Relatively broad descriptions of a vision for a program, or a mission statement, which represent short-term or long-term goals for a program.

Oiea Program goals

Oiea S&T objectives

Oig Resource / capability assessmen

The planning function of "taking stock" of what is available with respect to funding, personnel, facilities, support, etc., to prosecute a particular program, and assessing the sufficiency of such resources.

Oii Resource allocation / utilization

Allocation and use of available resources according to program plans and objectives; may be done judgmentally or by resource (payoff) allocation and benefit models.

Oik Priority assessment

Development of a system of relative priorities based upon a differential weighing strategy, using such criteria as payoff potential, response to sponsor expectations, logical order of development, product availability, etc.

Oim Program constraints

Limits or boundaries set on the conduct of a given program, usually concerning funding, personnel, available time, delivery milestones, use of other resources (such as agency participation), etc.

Oio Program costs

Projected costs of a program, usually in terms of manpower (labor) required, materials, facilities used, support needs, travel, consultants/contractors, overhead costs, etc.

Oiq Lessons learned

"Lessons" or knowledge gained as a result of particular research, that serve to help avoid costly duplication of efforts elsewhere.

Ois Long-range planning

Program planning with steps, phases, products, and outputs projected 5 years or more.

Oiu Experiments

Scientific studies aimed at extending or gaining knowledge of particular phenomena, effects, or relationships.

Oiw Technology assessment

The process of evaluating the status of current (or projected) technology in a particular area and for a particular application.

Oiwc Technological innovation

The process of extending or enhancing current technology through new, creative approaches to meet new needs.

Oiwe Technology forecasting

The process of projecting technology development in particular areas to extend current technology, or to develop new technology, by estimating the level or extent of gained capability or capacity anticipated.

Oiwg Technology impact

The real or anticipated effects (especially negative ones) upon systems, personnel, policies, etc., resulting from the introduction of new technology.

Oiwi Off-the-shelf technology

Technology which essentially is ready for installation or application and does not require significant test and evaluation or adaptation.

Oiwk State-of-the-art technology

Technology which represents the current, most advanced scientific or technical capability in a particular technology area.

Oiwm Automation concepts

Design concepts which apply computer technology to various information-sensing, input, processing, transmission, or output functions, with the effect of removing or reducing direct involvement of the human from the system.

Oiy Planning documentation

Technical and management documentation associated with program planning and reporting, including milestone charts, flow diagrams, progress reports, etc.

Ok Program development

The general process of systematically developing an approach to exploring a particular problem, or developing a particular product to meet a specific set of requirements within the bounds of a finite set of resources.

Okc Concept development

The creative process of conceiving an idea, or developing an innovative approach to an existing or anticipated problem.

Oke Feasibility studies

Exploratory studies designed to test the feasibility of applying a particular, heretofore untried, technological approach to a problem.

Okg Pilot projects

Initial projects of limited scope designed to test a particular concept or approach to gain information for guiding technical management decisionmaking.

Oki Program design

The general process of designing a program or study to achieve stated objectives within available resources; differs from study design which is more specific to technical approach.

Om Program administration

The general process of administering a program according to established program plans and objectives.

Oma Administrative procedures

Oma Program compliance

Oma Program coordination

Oma Program monitoring

Oma Resource management

Omc Technical support

Support of a technical nature, as opposed to logistical or other support, provided to operations, training, or R&D activity.

Ome R&D support

Support to primary R&D efforts through the design, development, and procurement of materials, hardware, laboratory facilities, personnel acquisitions, software, electronics, etc.

Oo Program evaluation

The general process of determining the adequacy of program planning, quality of program management, and the usefulness of program end products.

Ooa Program assessment

Ooc Program management evaluation

The process of assessing the quality with which a program was managed, according to planned expectations and allocated resources.

Ooe Product evaluation

Assessment of the degree to which the products or outputs resulting from a particular program fulfilled the requirements established for their development.

Oq Product utilization

A general measure of the nature and extent of a product's use, as an indicator of returns on R&D investment.

Oqc Product generalizability / interoperability

A measure of the degree to which concepts, design principles, software, or hardware developed for one application can be generalized to, or interchanged with, another application, with minimum modification.

Oqcc Technology transfer

The process of transferring specific technology developed for one application to another application with minimum modification.

Oqe Technology acceptance

A measure of the degree to which users accept, and make proper use of, technological innovation; a concern of the change management process.

Oqea User acceptance

Oqg R&D product / findings implementation The ongoing process of obtaining practical usage outlets for intended applications of scientific data, products, techniques, or processes.

Oqi Joint-Service R&D utilization

The process by which one or more of the military Services makes use of research findings and/or products which were developed by another Service.

Oqk Research findings dissemination

Communication and distribution of technical R&D information pertinent to the needs and interests of various civilian and military user communities to achieve product utilization.

Oqkc Resource centers

Facilities dedicated to the collection, storage, and dissemination of R&D findings and related information; may include libraries, databases, and other resources.

Os Financial management

The general process of managing financial resources allocated to a particular program or project so as to achieve quality end products in a timely fashion with minimal cost.

Osc Budgeting

The process of allocating available financial resources to various component programs, projects, tasks, procurements, cost categories, etc., so as to ensure that funding appropriate to the scope of the effort is provided.

Oscc Budget forecasting

The process of estimating future needs for financial budgets based upon past experience and information on future cost planning factors.

Ou Contract management The function of managing a contract according to established contracting rules and regulations (ASPER) under the specific conditions and requirements established for a specific contract.

Oua Contract compliance

Oua Proposal evaluation

Ow Facility management

The process of managing physical facilities according to established operational policies, procedures, and practices, so as to fulfill stated objectives.

Owa Site management

Owc R&D facilities

Physical facilities dedicated to the conduct of research and development studies and programs in one or more technology areas.

Owca Research laboratories

Owe Facility costs

The costs of constructing, maintaining, refurbishing, maintaining, and supporting a physical facility.

Owg Facilities utilization

A measure of the degree to which the specific capabilities of a given facility are being used for the purposes intended.

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DEFENSE / WARFARE

P DEFENSE / WARFARE

The organized national defense concerns, policies, strategies, and armaments, and forms of warfare, military operations, tactics, and measures; includes assessment of operational readiness and military effectiveness.

Pc State of war

Condition existing between nations in which the level of hostility varies from the imminent threat of war, or actual isolated conflict, to a formal declaration of war, with subsequent mobilization and full combat engagement.

Pcc Peacetime

The condition existing in a nation characterized by a relative absence of hostilities with an adversary.

Pce Wartime

The condition existing in a nation in which, following a formal declaration of war with an adversary, full military engagement is pursued to a final outcome and cessation of hostilities.

Pe Defense

The various national concerns, policies, strategies, and armaments organized to defend a nation and its allies against the threats or hostile acts of other nations.

Pec Air defense

The defense of civilian and military targets from attack by adversarial airborne weapons, missiles, and aircraft.

Pee Space defense

The defense of various types of space vehicles from attack by adversarial space weapons, or the precluding of an adversary's use of space for offensive purposes.

Peg National security

The national concerns, policies, and strategies organized to identify and neutralize, or counter, any internal or external threats to the nation's well-being.

Pei Deterrence strategies

Defensive strategies which so threaten a potential adversary as to restrain that adversary from taking offensive action.

Pek Missile defense

Defense which includes the use of various tactics and devices to counter an adversary's air-to-air, air-to surface, and surface-to-air missile attack.

Pem Countermeasures

Various devices, tactics, and maneuvers designed to counter an adversary's information sensors, targeting procedures, and weapon delivery devices.

Pemc Electronic countermeasures

Measures which counter an enemy threat electronically with devices which emit electronic signals to jam, decoy, or otherwise confuse an adversary's electronic sensors or weapon homing devices.

Pemca ECM

Peme Optical countermeasures

Devices, tactics, or other means which interfere with and degrade the capability of enemy devices which sense, track, or home using optical systems.

Pemea Visual countermeasures

Pemg Camouflage

Various materials, colors, and patterns used to cover installations, equipment, or personnel, and which visually obscure or conceal, reducing the likelihood of detection by an enemy; also, the use of such materials.

Pemi Stealth technology

Advanced vehicle design technology (for aircraft or armored ground vehicles), affecting both the vehicle's shape and construction materials, and resulting in a low-observable radar profile for evasion of enemy radar detection.

Pg Military doctrine

A body of beliefs, principles, and rules accepted as authoritative and indisputable by a particular military community.

Pga Doctrine

Pi

Threats

Conditions, situations, or stances, either imminent or projected, presented by an adversary, and which portend aggression, attack, danger, damage, loss of property, physical injury, or death.

Pic International crises

States of national emergency involving a high-level military threat affecting two or more nations.

Pie Advance warning of attack

The condition of being informed about an adversary's hostile intentions before any action is taken.

Pig Threat recognition

A state of awareness in which an adversarial threat is perceived or identified.

Pii Adversarial analysis

Analysis of the military, economic, and political posture and capabilities of a potential adversary, as compared with own-force capabilities.

Pik Threat analysis

Analysis of the nature and scope of an adversary's ability to present a military threat, and the probability of that adversary's hostile actions; includes study of threat reduction, and own-force capabilities in this regard.

Pika Military threat analysis

Pika Nonmilitary threat analysis

Pika Threat evaluation

Pim Military crisis management

The process of responding to critical, or imminent, military circumstances having a high level of threat and/or urgency.

Pk Warfare by type

Various types of military combat operations, characterized according to geographic locale, environment, topographic conditions, weapon platforms, systems and countermeasures used, specific combat requirements and threats, etc.

Pkc Land warfare

Warfare characterized by the mounting of relatively large forces of manpower, together with vehicles, field artillery and other weapons/equipment, combined with close air support, in a land combat operation.

Pkcc Tank warfare

Tactical land warfare involving (usually) armored and tracked vehicles with offensive firepower in coordination with other types of forces, and used to overcome various adversary forces, particularly armored forces.

Pkccc Anti-tank warfare Warfare tactics, weapons, and equipment specifically directed at the destruction of an adversary's armored vehicles.

Pke Naval warfare

Warfare involving the use of Navy surface ships, submarines, and carrier-launched aircraft against an adversary's sea/land/air forces, and to interdict sea lanes and disrupt transportation and communications.

Pkec Surface warfare

Naval warfare conducted by a surface force, such as a two-carrier battle group, against enemy surface forces to achieve tactical or strategic objectives at sea.

Pkecc Anti-surface warfare

Warfare involving the use of ships, aircraft, tactics, and weapons to destroy an adversary's surface warfare capability.

Pkecca ASUW

Pkee Submarine warfare

Warfare involving the use of the submarine as a weapon platform against an adversary's surface or subsurface (submarine) fleet.

Pkeec Anti-submarine warfare

Warfare involving the use of ships, submarines, aircraft, and sea/air/ land-based sensors to detect and destroy an adversary's tactical or strategic subsurface (submarine) force capability.

Pkeeca ASW

Pkg Amphibious warfare

Warfare involving the projection of a sea-based force (Marines) onto an adversary's shore in amphibious vessels, supported by naval air and surface forces.

Pki Air warfare

Warfare involving air-to-air and air-to-ground combat, employing various types of aircraft and weaponry.

Pkic Anti-air warfare

Warfare involving the use of intercept aircraft and shipboard and ground-based weapons to defend against enemy air attack.

Pkica AAW

Pkie Air strike

Tactical air warfare in which an aircraft strike force attacks enemy sea-based or land-based targets and forces.

Pkk Space warfare

Warfare involving the use of space-based sensors and weapons to prosecute a terrestrial war, or to counteract or destroy an adversary's space-based weapons and sensors.

Pkm Chemical / biological / radiological warfare

Warfare involving the use of chemical agents/gases, biological organisms, carbon fibers and other pollutants, and nuclear radiation against enemy forces or civilian populace to achieve tactical or strategic objectives.

Pkma CBR warfare

Pkma NBC warfare

Pkma Nuclear / biological/ chemical warfare

Pkmc Chemical warfare

Warfare involving the use of chemical agents to incapacitate enemy ground forces in land-based warfare; includes the study of chemical/ biological/radiological antidotes and their effects on own-force performance.

Pkme Biological warfare

Warfare involving the tactical or strategic use of biological organisms to infect enemy forces, causing disease, incapacitation, or death.

Pkmg Radiological warfare

Warfare involving the use of nuclear devices (bombs) to cause widespread destruction, initially due to blast and heat effects, and secondarily as a result of radiological poisoning.

Pkmga Nuclear warfare

Pko Electronic warfare

Warfare involving the use of electromagnetic emitters and sensors to detect, intercept, jam, mask, home-on, deceive, and otherwise defeat an adversary's electromagnetic sensors and emitters.

Pkoa EW

Pkq Mine warfare

Warfare typically involving the use of sea mines to destroy enemy ships, limit the use of harbors, and disrupt lines of communication; also, land mine warfare.

Pkqc Mine detection

Use of various devices (usually acoustic) to detect, identify, and evade enemy mines, either at sea or on land.

Pkqe Mine countermeasures

Use of devices and tactics for decoying or masking the sensing capability of sea mines, or cutting their mooring cables and destroying them.

Pks Acoustic warfare

Warfare involving the physics of sound underwater in sensing, discriminating, and interpreting various natural and human-produced underwater sounds for surveillance, target detection, identification, and weapon delivery.

Pku Urban warfare

Warfare waged under conditions described by large city and urban environments, and requiring tactics and weapons different from the usual forms of land warfare.

Pkw Special warfare

Warfare involving the use of comparatively small, specialized, highly trained forces (e.g., Navy SEALS) in often high-risk, high-security missions to achieve a particular military or political objective.

Pm Military missions

Tactical or strategic operations which involve military forces in pursuit of military objectives, or acting in the interest and support of national policy.

Pmc Mission requirements

Those functional and performance requirements imposed by the circumstances and conditions of a particular mission, translated into specific guidelines for the planning and conduct of the mission.

Pme Mission planning / preparation

The process of planning and preparing for a particular mission, with consideration for such factors as enemy response capability, particular weapon systems needed, type of targets, target distance, terrain, weather, etc.

Pmea Mission analysis

Pmg Terrain analysis

Analysis of terrain elevations, contours, ground cover, bodies of water, natural impediments, etc., to facilitate offensive or defensive tactical planning.

Pmi Mission performance

A measure of the degree to which a given plan or system has achieved the objectives of a particular mission.

Pmic Mission evaluation

Real-time and follow-up assessment of a mission plan as executed, modified, and prosecuted throughout the action, relative to degree of success in achieving planned objectives.

Pmk Tactical missions

Missions which are geographically near, with actions serving immediate military objectives, and where assessment of mission success can be readily accomplished.

Pmm Strategic missions

Missions associated with strategic warfare on a global scale, wherein the targets might be broad-based, and might include economic and political objectives, as well as strictly military ones.

Pmo Space missions

Missions related to, or occurring in, earth orbital space; includes space surveillance and defense.

Po Military operations

A broad class of steps and actions designed to prosecute a plan for using military forces to achieve a military objective.

Poc Military intelligence

Information gathered on an current/potential adversary, which can serve to increase military advantage over that adversary, or decrease the adversary's advantage; the military unit which gathers such information.

Poca Intelligence gathering

Poca Reconnaissance

Poe Sustained operations

Military operations sustained over a sufficiently long period of time so as to risk system degradation due to personnel fatigue.

Poea Continuous operations

Pog Offensive operations

Military operations characterized by initiating aggression or attack against an adversary; a form of battle involving assault operations.

Poga Ambush operations

Poga Forward area operations

Poi Night operations

Operations conducted in a state of darkness which imposes additional and unique requirements for visual surveillance, communications, target assessment, and maneuvering.

Pok Battle management

Management of military personnel and materiel resources in engagement with an adversary so as to optimize expenditures (costs) with respect to tactical or strategic gains realized.

Poka Airbattle management

Poka Battlefield management

Pokc Airland battle

Large-scale, all-inclusive combat scenario usually involving multi-Service personnel and materiel resources.

Pom Combat

Engagement of forces in armed conflict, involving the exchange of weapons fire, with the intention of inflicting sufficient damage and injury upon the adversary force so as to neutralize its threat, or gain military advantage.

Pomc Ground combat

Combat waged primarily by ground-based forces and directed at ground-based targets.

Pomca Field combat

Pomca Land combat

Pome Air combat Combat in which aircraft (fixed or rotary wing) are the primary attacking or defending weapon systems.

Pomec Air-to-air combat Combat in which the antagonists engage solely with aircraft.

Pomee Air-to-ground combat Combat in which aircraft attack ground targets, with defense being primarily ground-to-air weaponry.

Pomeg Aircraft launch

Mission segment involving the launching of aircraft from a land base, or, more typically, from an aircraft carrier in a specific sequence within a given time period.

Pomei Aircraft landing

Mission segment in which aircraft returning from a mission land either on an airfield, or, at sea, on an aircraft carrier.

Pomeia Aircraft recovery

Pomg Close combat

Combat in which the antagonists are in unaided visual contact with each other; may apply to either ground or air combat.

Pomi Platform maneuvering

The act of maneuvering or positioning a ship, aircraft, or other vehicle for the purpose of evading enemy action, or to achieve a tactically superior position for attack.

Pomic Nap-of-the-earth

A type of evasive flying in which an aircraft flies at a very low altitude to avoid detection by enemy radar, as well as to minimize the possibility of direct visual sighting.

Pomica NOE

Poo Attack

Mission segment characterized by initiating use of manpower and weaponry against an enemy force, according to a tactical or strategic plan, as opposed to defensively reacting to the enemy's initiative.

Pooc Attack planning

Mission segment involving the use of military intelligence regarding enemy capability, combined with knowledge of own-force resources and objectives, to develop a plan of attack.

Poq Command / control / communication / intelligence

Complex military system, together with its associated installations, for information sensing, distribution, management and control, and tactical/strategic decision making, ranging from a single unit (e.g., ship) to global proportions.

Poqa C3 Intelligence

Poqa C3I

Poqc Command / control / communication

A subset of C3I, concerned primarily with information sensing, distribution, and management, and associated decision making.

Poqca C3

Poqe Command / control / intelligence A subset of C3I, with emphasis on use of real-time information sensing and interpretation from a battle area, as well as use of archival information stored in databases and used to aid decision making.

Poqea C2I

Poqg Command and control A general, shortened form of C3I that usually is meant to include the same functions.

Poqga C2

Poqi Command and control centers Airborne, shipboard, subsurface, or land-based facilities dedicated to the performance of C3I functions.

Poqk Tactical communications

A critical component of tactical operations involving real-time communications throughout the chain of command, from the most forward unit, through intermediate levels of command, to the command battle staff.

Poqm Communication degradation

Loss of information in communication links due to enemy action, environmental influence, or personnel/equipment failure.

Pos Damage management

The control of damage so as to minimize its effect on the operational effectiveness of a unit or system.

Posc Damage assessment

A damage management function involving determination of the degree to which damage sustained has influenced the operational capability of the unit, and deciding on appropriate measures.

Pose Damage control

The process of assessing damage and arriving at strategies for controlling and minimizing its effects on the warfighting potential of a unit.

Posg Fire fighting

Segment of damage control concerned with sensing, locating, and extinguishing fires of various origin and occurring in various environments.

Pou Search and rescue

Warfare mission concerned with locating lost, isolated, or otherwise endangered own-force personnel, at sea and on land, and safely extracting them from danger.

Poua SAR

Pow Surveillance

Mission of maintaining continuous search and documentation activity for a geographic area in order to detect the presence of enemy forces/weaponry as possible threats or targets at maximum range, to allow maximum response time.

Pp Nonmilitary operations

Operations of an essentially non-military nature, or having a non-military objective.

Ppc Drug interdiction

Actions taken by legal authorities to interrupt the flow of illicit drug traffic.

Ppe Terrorism

Generally random and unanticipated acts of violence by military, para-military, or civilian agents, usually directed against undefended, non-military targets, and having retaliatory, political, or morale disrupting motivations.

Pr Weapons

Instruments of warfighting, ranging in size and destructive power from hand guns and rifles to light and heavy field artillery, biochemical agents, various aircraft and ship weapon systems, ballistic missiles, and nuclear devices. Prc Weapons / ammunition management

Logistical functions concerned with the proper handling, storage, assembly, and replenishment of weapons, including neutralizing and disposing of friendly or enemy ordnance.

Prca Munitions management / disposal

Prca Ordnance management / disposal

Pre Weapons selection / assignment

Function concerned with selecting specific weapons from available stores, configuring the ordnance load of the delivery vehicle, and assigning weapons to specific targets in order to optimize their lethality/mission success.

Prg Weapon firing / launch Mission segment concerned with accurately firing or launching a weapon at an adversary target.

Pri Weapons handling Primarily a logistical function of transferring, shifting, storing, and breaking-out weapons according to safety guidelines and mission requirements.

Ps Gunnery The principles of, and procedures involved in, handling, aiming, and firing a weapon at a target.

Psc Anti-tank / anti-armor gunnery That form of gunnery for which armored vehicles are the primary target.

Pse Fire control

Weapon system function concerned with assigning weapons to targets according to target and threat information provided, and providing for target tracking until it is assumed by weapon homing, or until target destruction occurs.

Psea Artillery control

Psea Fire direction

Psg Fire support Direction and control of the firing of specific weapons relative to enemy locations.

Psi Sustained artillery fire

Continuous, unrelieved artillery fire over a relatively long period, intended to demoralize enemy forces and prevent enemy counteraction.

Pu Targetry

Mission function concerned with determining types of targets to be attacked, their potential value to the enemy, best options for attacking them, and their potential for counterattack.

Puc Target detection

Mission function concerned with sensing the presence of a target with an acceptably high probability of certainty; may be performed by the unaided eye, or a sophisticated radar or sonar system.

Pue Target acquisition

Mission function which involves capturing the target within the range and azimuth capability (basket) of the weapon used, so that when the weapon is fired (launched, delivered), there is a high probability of target destruction.

Pug Target identification / classification

Mission function concerned with extracting useful information about the target and its "signature" through various sensor devices to allow it to be correctly identified and classified.

Pui Target characteristics

Characteristics of a target such as speed, maneuverability, radar cross-section, countermeasure capability, armament, response capability, etc.

Puk Target tracking

Mission function concerned with maintaining a "lock" on a target once it has been detected and acquired, allowing information to be collected and response action considered.

Pum Target range estimation

Estimating the distance between the tracking device and the target, or between the target and some other point of reference, such as another ship, aircraft, or geographic reference point.

Puo Target motion

The motion of a target, either actual, or as perceived from a tracking device or other point of reference.

Puq Target hand-off

The process by which a tracking device, or command control function other than the one currently performing tracking, is assigned responsibility for tracking a particular target.

Pw Support operations

Those functions performed by logistical and maintenance/repair communities in support of the operating units, to provide sufficient quantities of operable materiel and ready personnel.

Pwc Maintenance / repair

Function of planning for, providing, and delivering maintenance, repair, and replacement services, parts, and materials in a timely manner, so as to maintain availability and operability in support of warfighting capability.

Pwcc Electronics maintenance

Provision of maintenance, repair, and/or replacement of electronics parts, modules, and assemblies, as well as technical expertise to repair systems equipment, in order to maintain operability and availability.

Pwcca Electronics troubleshooting

Pwce On-site repairs

Maintenance and repair activities which are performed at the site of the prime equipment's installation.

Pwe Logistics support

Mission function which includes procurement, transportation, distribution, maintenance, repair, and replacement of military materiel; usually does not include the personnel component.

Pwec Supply management

The process of managing materiel inventories, ordering and controlling replacement inventories, and disbursing those inventories to qualified requestors in an effective manner.

Pweca Materiel management

Pwee Maintenance / materiel management systems

Systems, usually partially or completely computerized, which manage use reporting, usage rate determination and projections, data assimilation, inventory control, and other control functions related to logistics support.

Pwg Combat engineering support

Part of the logistical function concerned with the mechanical and electrical maintenance and support of military systems and equipment.

Pwi Airlift operations

Part of the logistical mission which involves delivering equipment and personnel to an operating area or unit via large cargo aircraft.

PwkShore activitiesNavy activities, typically with a fleet-support function, which are located ashore near a major home port.

PwmCartographyThe art and science of constructing maps.

Px Military prepardedness

A measure of the degree to which a given operational unit (including logistical units) are ready to assume their full responsibilities for fulfilling their assigned mission(s); includes equipment, personnel, and support.

Pxc Combat effectiveness

A measure of the degree to which combat actions are considered effective.

Pxe Operational readiness

A measure of the degree to which any personnel/materiel system at a given hierarchical level (unit, department, ship, fleet, etc.) is fully prepared to assume the duties/responsibilities associated with performing its mission.

Pxea Combat readiness

Pxec Deployment readiness

A measure of the degree to which a military unit is prepared to be assigned and deployed to a remote mission area; includes personnel, equipment, and training readiness.

Pxeca Deployability

Pxee Personnel readiness

A measure of the degree to which the personnel component of a system is available and prepared in the numbers, skills and abilities, and level of proficiency required for successful performance of its assigned mission.

Pxeea Manpower readiness

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127 DEFENSE/WARFARE

PERSONNEL

R PERSONNEL Groups and types of military and civilian personnel who are involved as the objects of various R&D endeavors. Rb Military personnel Uniformed personnel in the armed forces of the United States. Rba Uniformed personnel Rbc Officers Military personnel who have been granted a commission in one of the armed Services by act of Congress. Rbca **Commissioned** officers Rbe Officer candidates Individuals, in one of several programs, who are considered candidates for a commission in one of the armed forces upon successful completion of the training program. Rbec **ROTC** cadets Individuals who are enrolled in one of the many Reserve Officer Training Corps programs associated with universities and colleges in the United States. Rbg Warrant officers Navy personnel appointed from applicants from Chief Petty Officer paygrades; grade WO-1, Warrant Officer, is non-commissioned; grades WO-2 to WO-4 are commissioned Chief Warrant Officers. Rbi Enlisted personnel Military personnel in paygrades E-1 through E-9. Rbic Petty officers Navy personnel in paygrades E-4 through E-9. Rbie Noncommissioned officers Military personnel in paygrades E-4 through E-9. Rbiea **NCOs** Rc Civilian personnel Personnel not on active (or reserve) duty with one of the armed Services. Rcc Civil service personnel Civilian personnel in the employ of the U.S. Government.

Rce Contract personnel

Personnel who are neither members of an armed Service or federal civil service, but who are performing work under contract to the U.S. Government as employees of companies in private industry.

Re Service status

The assignment, training, or other status of personnel in the armed Services at a given time.

Rec Recruits

Enlisted personnel undergoing basic training in one of the armed Services of the United States.

Recc Prior service recruits

Recruits who have been members of one of the armed Services at some time in the past, and who have reenlisted in one of the Services.

Rece Nonprior service recruits Recruits who have had no prior service in any of the U.S. armed Services.

Ree Trainees Individuals or groups undergoing some form of training.

Reea In-training personnel

Reg Active duty personnel Personnel assigned full time to an active duty position (billet) in an operational military unit.

Rei Reserve personnel

Personnel in the active or inactive reserve of a particular armed Service; active reservists "drill" once a month and participate in a two-week active duty period each year.

Rek Retired personnel

Individuals who have qualified for retired status from an armed Service, after 20 or more years of active duty service, and are released to inactive duty.

Rem Veterans

Individuals who were a member of a U.S. armed Service during a period of conflict within which the U.S. was involved.

Reo Nonunit manpower

Manpower that is not accounted for at a particular time by one of the series of unit identification codes (UICs).

Reoa Individuals' accounts

Reoc Transients

Individuals in military service who are in transit from one permanent duty station to another.

Rece Patients

Individuals who are receiving in-patient or out-patient care at a health care facility.

Reog Casualties

Generally, individuals who have suffered combat-related death or injury; may also include non-combat related deaths or injuries occurring in a combat zone.

Reoi Prisoners of war

Individuals in the armed Services who are taken captive by enemy forces during periods of warfare.

Reoia POWS

Rf Level of command

A particular command echelon in a military hierarchical command structure.

Rfc Company commanders

Command officers, usually at the O-3 level, in charge of company-sized units (up to approximately 200 personnel).

Rfe Command staff

A staff of technical individuals assigned to a command who have administrative responsibility in turn for operations, intelligence, logistics, personnel, supplies, etc.

Rfg Commanding officers

Officers with command authority assigned to a duty station (ship, post, etc.) as the Commanding Officer (CO), the top-ranking military position; some smaller organizations rate only an Officer-In-Charge (OIC).

Rfga Commanders

Rfi Leaders

A general term for individuals, with formal or informal authority, who are able to organize, control, direct, and motivate subordinates successfully.

Rh Combat personnel

Individuals who are assigned to units whose mission brings them in direct contact with an enemy, with the purpose of neutralizing enemy capability.

Rha Combat unit

Rhc Ground combat personnel

Generally Army or Marine personnel whose primary military mission is to overcome enemy ground forces, and to take and control a particular territory.

Rhca Ground forces

Rhcc Infantry

Troops whose primary mission is to fight a war on the ground (i.e., foot soldiers); troops may be air-dropped to the mission area, transported by vehicles, or interjected through amphibious assault.

Rhce Motorized infantry

Infantry transported to and from combat areas by vehicles, such as armored personnel carriers (APC).

Rhcg Artillery specialists

Individuals who are trained in the techniques of artillery, including laying-in guns, computing trajectories, designating type of ammunition with respect to type of target, etc.

Rhci Forward observers

Combat personnel situated at the farthest point of advance to observe enemy activity and to communicate that information to rear area commanders; often assigned as "spotters" for field artillery units.

Rhck Combat vehicle crews Combat personnel who operate land-based combat vehicles, such as the M-1 Tank, the Bradley Fighting Vehicle, etc.

Rhckc Armor crews Combat personnel assigned to operate armored vehicles, such as the M-1 tank.

Rhckca Tank crews

Rhe Gunners

Combat personnel responsible for operating missile and conventional weapon armament in aircraft, combat vehicles, ships, and landing craft.

Rhg Special Forces

Specially designated combat units (e.g., Green Berets, Rangers, Seals) trained to perform special missions, often under high-security conditions.

Ri Shipboard personnel

Personnel assigned to a ship commissioned within the U.S. Navy or U.S. Coast Guard.

Ric Submarine personnel Personnel assigned to duty on a submarine.

Rie Flight deck personnel

Navy personnel assigned to perform aircraft handling and launching duties on the flight deck of aircraft carriers (CVA), or other similar vessels.

RkShore-based personnelGenerally Navy personnel assigned to fill billets in installations, activities, and units ashore.

RI Aircrews Personnel assigned to crewstations on aircraft (fixed or rotary wing).

Rla Helicopter crews

Rlc Pilots

Personnel assigned to perform aircraft piloting duties, usually as aircraft commanders.

Rlca Aviators

Rlcc Copilots

Personnel assigned to perform aircraft piloting duties, usually as second-in-command to the pilot, or aircraft commander.

Rle Bombardiers

Bomber aircraft crew members whose job is to identify and sight a ground target, and release free-falling aerial bombs.

Rn Space crews

Personnel assigned to various functional positions in a space vehicle.

Ro Technical specialists Personnel who have expertise in a particular technical area.

Roa Technicians

Rob Navigators

Shipboard or aircraft personnel responsible for planning the courses to be followed and for determining the precise location of a ship or aircraft on the surface of the earth.

Roc Electronics specialists

Specialists responsible for preventive and corrective maintenance of electronic systems and equipment.

Roe Calibration technicians Specialists responsible for calibrating a piece of equipment to electronic or mechanical standards.

Rof Communications specialists Specialists responsible for the design, installation, and maintenance of electronic communications equipment.

Roh Computer programmers Personnel responsible for writing computer programs, using specified computer languages.

Roi Intelligence specialists Specialists trained in collecting, analyzing, interpreting, and reporting information on enemy capabilities, tactics, and operations.

Rok Linguists Individuals who can speak several languages, or who specialize in linguistics.

Rom Air traffic controllers

Specialists responsible for the control of aircraft traffic enroute or at airport facilities through the use of radar technology, telecommunications, and direct visual contact.

Roo Underwater workers Personnel who perform construction and salvage work underwater, using various types of breathing support equipment.

Rooa Divers

Rop Mechanics

Personnel responsible for maintenance and repair of mechanical subsystems and equipment.

Roq Maintenance personnel

Personnel responsible for preventive (scheduled) maintenance and corrective maintenance (troubleshooting and repair) of various types of systems and equipment.

Ror Damage control personnel

Personnel involved in fire fighting, collision, explosion, and other disaster control; responsible for watertight integrity, removing fire hazards, maintaining emergency equipment, repairing/restorating damaged equipment.

Rorc Fire fighters

Personnel with knowledge and skill in preventing and fighting fires of various types under varied circumstances and conditions.

Rot Engineering personnel

Generally, Navy personnel responsible for operation and maintenance of such primary ship systems as propulsion, power generation, ventilation, water purification, etc.

Rou Operators

Personnel responsible for the operation of various systems and types of equipment.

Rov Scientists / engineers

Professional personnel, trained in a particular area of technical expertise, responsible for technology growth and utilization in the conception, design, development, and engineering of complex warfare systems and equipment.

Rox Health care specialists Specialists responsible for the delivery of health care services to Service members and their families.

Roxa Health manpower

Roxa Medical personnel

Roxc Physicians

Professional medical personnel with MD degrees who are responsible for primary health care delivery and the supervision of health care technicians.

Roxe Dentists

Professional medical personnel with DDS degrees who are responsible for care of teeth and gums and oral hygiene, and the supervision of dental technicians.

Roxg Nurses

Professional personnel with RN (or BSN) degrees who are responsible for primary health care delivery under the supervision of a physician.

Rq Functional support specialists Specialists, or groups, with specific areas of service performed in support of major personnel systems.

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Rqc Recruiters

Personnel stationed in various geographic locations whose duties include promoting the armed Services and persuading qualified personnel to enlist.

Rqd Personnel services staff

A support staff which provides such services as personnel selection, placement, assignment, performance review, training, benefit administration, etc.

Rqdc Guidance counselors

Personnel whose responsibilities include counseling individuals on career potential, providing recommendations regarding career goals, and aiding in the process of career progression.

Rqde Human relations personnel

Personnel responsible for human resources management; i.e., personnel selection, placement, assignment, assessment, organizational assessment, personal improvement, productivity, etc.

Rqf Instructors

Personnel qualified to serve as teachers or instructors in particular subject areas, or in various instructional environments.

Rqfa Drill instructors

Rqfa Teachers

Rqg Opposing Force

Term used to designate the "enemy" force in a training simulation or training context.

Rqga OPFOR

Rqi Chaplains

Personnel assigned to the Chaplain Corps in a given armed Service, and responsible for the spiritual and emotional well-being of the associated Service personnel.

Rqic Unit ministry team

A team, composed of various religious denominations, which is attached to various military forces and units for purposes of morale building and spiritual/moral support.

Rqica UMT

Rqj Evaluators

Personnel responsible for assessing the performance adequacy of individuals, groups, or organizational units; includes individuals rating or scaling certain variables on a particular dimension.

Rqja Raters

Rql Management personnel

Personnel whose duties involve planning, organizing, and directing the operation of an organization, including supervising subordinates.

Rqla Executives

Rqla Supervisors

Rqm Security personnel

Personnel responsible for protecting the security of personnel and materiel in various types of military units and posts; includes both internal and external security.

Rqma Guards

Rqma Military police

Rqo Vehicle operators

Personnel who operate various types of wheeled vehicles according to prescribed rules and regulations.

Rqoa Drivers

Rqp Ground crews Personnel usually identified with the service and support of aircraft.

Rqr Supply personnel

Personnel, such as the Navy Storekeeper (SK) rating, responsible for ordering, storing, inventory control, and disbursement of a wide variety of goods and materials.

Rr Demographic characteristics Descriptive characteristics of, and associated statistical proportions within, human populations; e.g., population density, distribution, vital statistics.

Rrc Females Female personnel, including number and characteristics of female members of a given population or designated group.

Rrca Women

Rre Males

Male personnel, including number and characteristics of male members of a given population or designated group.

Rrea Men

Rrg Single parents

Parents who are the sole existing parent in a household (either divorced or separated from the other parent).

Rri Dual military career couples Marital relationships in which both spouses are on active duty with a military Service (usually the same Service).

Rrk Minorities

Individuals with a racial heritage whose representation in a given population does not constitute a majority.

Rrm Racial / ethnic background Background, or history, of individuals as related to their racial/ethnic heritage or ancestry.

Rrma American Indians

Rrma Asian Americans

Rrma Blacks

Rrma Caucasians

Rrma Hispanics

Rro Education level The number of grades completed, or degrees conferred, in formal schooling.

Rroc High school nongraduate Individuals who terminated their schooling (dropped-out) without graduating high school.

Rroe Students

Individuals who are engaged in a program of formal schooling usually, with a diploma or degree objective.

Rroec High school students Individuals who are currently enrolled in high school, i.e., 9th to 12th grades of formal education.

Rroee College students Individuals who are currently enrolled in a formal program of study in a recognized college or university; includes undergraduate and graduate students.

Rroeea Graduate students

Rroeea Undergraduates

Rrog High school graduates Individuals who have completed four years of high school (or equivalent) and have been granted a diploma or GED certificate.

Rroi College graduates Individuals who have completed a four-year program of study at a recognized college or university and have been granted a baccalaureate degree.

Rrok Service academy graduates _ Individuals who have graduated from one of the four Service academies (Army, Navy, Air Force, Coast Guard).

Rrq Disabled personnel

Personnels having some degree of disability resulting from a Service-connected injury, disease, or incapacity.

Rrqa Handicapped personnel

Rt Level of experience Level of experience attained by individuals or groups in a particular occupational area.

Rtc Novices

Individuals or groups at the primary, or entry, level of experience in a particular task or job area; apprentices.

Rte Experts Individuals or groups who have well-established skill and experience backgrounds in a particular task or occupational area; journeymen, master craftsmen.

RuGeographic locationLocation of military personnel throughout the world.

Ruc Overseas personnel Personnel assigned to duty stations outside the continental limits of the United States.

Rue Foreign personnel Military personnel affiliated with a foreign country.

Rug CONUS personnel Personnel stationed within the continental limits of the United States.

Rw Teams

Two or more individuals responsible for performing duties or tasks in a cooperative manner to achieve an desired goal.

Rwa Crews

Rx Families

Family units including at least one parent and one or more offspring, wherein one or both parents are on activity duty with a military Service.

Rxa	Children
Rxa	Dependents
Rxa	Military families
Rxa	Spouses

SKILLS

SKILLS

S

Various specific, formally or informally acquired human abilities, generally considered useful for occupational application. Sc Skill classes Types and categories of skills (acquired abilities) related to the type of behavior involved in work activity, or to the subject area of the skill application. Scc Critical skills Those particular skills considered to be fundamental to the successful performance of a task or job. Sce **Diagnostic skills** Skills related to the capability to employ inductive and/or deductive problem solving to determine the underlying causal factors contributing to a particular outcome. Scg **Cognitive skills** Skills which include perceiving, reasoning, conceiving, and judging processes which are organized and classified according to individual "style." Scgc **Decision-making skills** Cognitive skills used in seeking useful information, identifying option paths and their associated outcomes, and selecting options which best achieve preferred outcomes.

Scge Problem-solving skills Cognitive skills involved in defining a problem, conceiving approaches to its solution, evaluating those approaches, using relevant criteria, and proposing a "best" approach for problem solution.

Sci Nontraditional skills Skills which usually are not considered fundamentally related or "traditional" in the performance of a particular job or set of tasks.

Sck Psychomotor skills A combination of sensory and muscular abilities, including a range of behaviors involving dexterity, manipulative ability, motor ability, eye-hand coordination, as well as other aspects of motor performance.

Scka Motor skill

Scka Noncognitive skills

Scm Leadership skills

Personal ability, coupled with knowledge and skill, in the use and management of people and materiel applied to the control, guidance, and motivation of individuals (usually subordinates) toward the achievement of unit goals.

SKILLS 139

Se Military skills

Skills important to successful performance of military tasks, duties, and jobs.

Sec Tactical warfare skills

Skills involved in interpreting tactical information relative to own-force status, interpreting conditions and objectives relative to a counterforce, and in taking actions which result in a successful outcome.

See Urban warfare skills

Skills involving knowledge of principles and guidelines for urban warfare, and the ability to interpret existing situations with respect to those rules and take appropriate action to obtain a successful outcome.

Seg Strategic warfare skills

Skills involving knowledge of the objectives of strategic warfare, the rules of force projection in limited or large-scale warfare contexts, and the ability to adapt to changing conditions to achieve strategic warfare objectives.

Sei Shiphandling skills Skills involved in commanding a ship of a given size under various modes of operation.

Seia Ship piloting

Sek Aircraft piloting skills Skills involved in performing in the various modes of aircraft piloting.

Seka Flying

Sem Combat skills

Skills involving knowledge of the principles and techniques of specific forms of combat, and the ability to successfully engage an adversary accordingly.

Semc Field combat skills

Skills involved in meeting and defeating an adversary in ground defense or attack, usually involving infantry and tank warfare.

Seme Air combat skills

Skills involving knowledge of own-aircraft and adversary aircraft performance capabilities, with the ability to translate that knowledge into position information and combat strategies leading to a successful engagement.

Semg Gunnery skills Skills associated with surveying, training/pointing, target tracking, obtaining a firing solution, selecting ammunition type, and firing in order to destroy the target; refers to field weapons larger than handguns and rifles.

Semi Marksmanship skills

Skills associated with proficiency in the use of handguns and rifles in hitting static or moving targets.

Semk Map / chart reading skills

Skills in interpreting the notation, symbology, range and azimuth, and topographic information to locate own-position, other units' positions, and to select positions of tactical advantage and best traversal routes.

140 SKILLS
Seo Navigation skills

Skills involving knowledge and ability in the use of charts, special publications, navigational aids, instruments, electronic aids, and satellites to determine the location of a unit on the earth's surface.

Seoc Surface navigation skills

Skills involving the ability to determine the location of own-unit (or other units) on the earth's surface, primarily at sea, and to identify a preferred (or recommended) route.

Seq Driving skills

Skills involved in controlling a vehicle in a safe manner, consistent with rules and regulations, and under various levels of traffic and environmental conditions.

Ses Fire fighting skills

Skills involving knowledge of the various types of fires and preferred techniques for extinguishing each type, along with ability to use the various life-support and fire fighting equipment associated with each technique.

Seu Diving skills

Skills involving knowledge of dive time and depth charts, use various types of breathing apparatus, understanding of associated personal hazards, and ability to use specialized tools in the execution of underwater tasks.

Sew Survival skills

Skills necessary to survive in hostile environments, either natural or man-made.

Sewa POW survival skills

Sg Basic skills

Skills considered to be basic to success in educational programs, usually including reading, writing, and mathematics (or numeric) skills.

Sga Essential skills

Sga Initial skills

Sgc Mathematical skills

Skills involved in understanding and applying various mathematical principles, properties, formulae, computational procedures, etc., to specific types of problems.

Sge Language skills

Skills involved in the ability to converse, write, and read at an acceptable level of proficiency in a particular language.

Sgea Linguistic skills

Sgea Literacy skills

Sgea Verbal skills

Sgec Reading skills

Skills involved in the ability to read and comprehend textual information at a specified reading grade level (RGL).

Sgee Writing skills

Skills involved in the ability to make written descriptions of events and relationships in a clear, concise, unambiguous, and interesting manner using the English language.

Sgeg Second language skills

Skills involved in the ability to speak, write, understand, or translate in a language difference from one's primary, native language.

Sgega ESL skills

Si Personal improvement / social skills

Skills associated with interpersonal relations, leadership, persuas-iveness, good listening habits, etc., which serve to improve and enhance personal effectiveness in social relationships.

Sic Stress reduction skills

Skills involved in the use of various techniques, such as recreation, meditation, counseling, physical exercise, etc., as a means for controlling and reducing personal stress levels.

Sie Listening skills

Skills involved in listening attentively and perceptively to voice communication, and accurately discerning content and meaning.

Sig Organizational skills

Skills involved in perceiving the need for structure, policies, and procedures to create an organization which will successfully meet individual and organizational objectives.

Siga OE skills

Sii Planning skills Skills associated with identifying the tasks to be accomplished and organizing them in a meaningful time-line relation, while anticipating and accounting for problems which might arise in their execution.

Sik Rater skills

Skills involved in understanding the rating context and rating criteria, and in assigning ratings to subject individuals in a consistent, unbiased manner.

Sim Community relations skills

Skills involved in identifying with the goals of the community and interacting with community action-takers and leaders in a positive, proactive manner so as to gain community support.

Sio Human relations skills

Skills involved in interacting with people within a particular context to obtain a particular objective.

Sk Occupational skills

Skills specific to a particular occupation or job specialty.

Ska Task-specific skills

Skc Maintenance skills Skills associated with servicing, refurbishing, adjusting, and repairing facilities and/or equipment.

Skcc Facilities maintenance skills

Skills associated with cleaning, restoring, servicing, and conditioning facilities used in conjunction with warfare equipment.

Skce Electronics maintenance skills

Skills associated with the use of test support equipment and technical manuals, coupled with knowledge of electronic principles, to service and repair electronic equipment.

Skcg Mechanical maintenance skills

Skills associated with knowledge of mechanical principles and operating procedures for servicing, repairing, or modifying mechanical equipment.

Ske Instructor skills

Skills involved in preparing curricula, course outlines, and lesson plans, and in delivering instruction in a classroom environment, or serving as a facilitator/manager in computer-based instruction.

Skg Medical technician skills

Skills involving preparation of materials and instruments, patient processing and record keeping, giving first aid, treating minor wounds and applying dressings, and assisting physicians in patient treatment.

Ski Contract management skills

Skills associated with interacting with contractors and managing government contracts according to rules, policies, regulations, and specific contractual conditions (deliverables, progress payments, modifications, etc.).

Skk Safety practices skills Skills involved in perceiving potentially hazardous situations and in developing procedures and policies to reduce personnel or equipment hazards to acceptable levels.

Skm Law enforcement skills

Skills involved in dealing with people in confrontational settings and in enforcing the law in an unbiased manner.

Sko Science skills Skills associated with general knowledge of the physical and biological sciences, understanding of the scientific method, and skill in applying those principles to problems.

Skq Computer operation skills

Skills involved in manipulating computers and their peripherals to input data, generate text or data, manipulate text or data, and output information in a timely, accurate, and effective manner.

Skqa Computer user skills

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TASK / SYSTEM ANALYSIS

TASK / SYSTEM ANALYSIS

Behavioral analysis for assessing human performance demands in the design, development, and operation of complex military systems.

Tc System analysis

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Analytic process characterized by attention to the nature of system inputs, manner in which system functions are performed and their interactions, and relation of outputs to objectives so as to optimize human capabilities.

Tcc Front-end analysis Analysis performed early in the design process to identify and assess the tasks to be performed by humans, so as to ensure consideration of human capabilities and limitations in system design.

Tcg Function analysis Identification and analysis of the major human-machine operations of a particular system to achieve a specific output.

Tcga Critical functions analysis

Tcga Function flow analysis

Te Workload analysis

Analysis to identify and appraise the physical and cognitive workload (level of continuous effort) imposed on the human operator/maintainer in a system under specific circumstances.

Tec Workload

The level of physical and cognitive effort required of a human operator in a work environment on a continuous basis for a specified time period.

Tecc Mental workload

The level of perceiving, reasoning, conceiving, and judging imposed on a human operator in a work environment on a continuous basis for a specified time period.

Tece Workload determination

Use of behavioral models and data with analytic or simulation techniques (or some combination) to determine workload as a function of design, manning level, task complexity, environment, training level, etc.

Tecec Workload forecasting / prediction

Prediction of the human workload imposed by a given system design, or set of conditions, using behavioral data and analytic or simulation techniques.

Tecg Workload design

The system design step involving the assessment of type and level of workload, and assigning it (through design) to a machine, single or multiple human operators, or an integrated human-machine operator.

Tee Work-rest cycles

Relative alternating and spacing of work periods and rest periods, depending upon the particular tasks to be performed, to minimize amount of performance degradation for a given time period.

Tg Task analysis

Analytic process of decomposing units of human behavior (functions, tasks, elements, therbligs) to a level appropriate for studying objectives, to identify human performance requirements, implications, and potential problems.

Tgc Task requirements

A product of task analysis in which specific behaviors required of humans are stated, along with required levels of those behaviors and associated environmental conditions.

Tge Task-equipment analysis

That form of task analysis which focuses on the specifics of the hardware interface between the human and equipment components with respect to human-machine interaction (e.g., control-display design).

Tgg Task integration

The process of assimilating tasks of like character and operator demand into a compatible set so as to define a personnel position.

Tgi Task simplification

Use of task redesign, job performance aids, procedural modifications, additional time, etc., to reduce the physical or cognitive load on the human for a function or set of tasks.

Tgk Task loading

A form of workload analysis at the task level which identifies and assesses the level of physical and cognitive demand imposed on the human, and by which the effect on human/system performance may be estimated.

Tgkc Concurrent tasks

Tasks which must be performed simultaneously within a given time period; tends to increase task loading and stress, and requires more training, with increased likelihood of performance degradation.

Tgke Multiple tasks

Several tasks, usually performed in sequence as a process, which are highly interrelated and necessary to achieving a specified task product or outcome state.

Tgm Task complexity

Number and variety of components in a task; i.e., the number of steps, changing decision rules, critical time demands, skill/knowledge demands, etc., which combine to increase the difficulty of performing a task (or task set).

Tgo Group / team tasks

Those tasks which require joint and coordinated action by two or more individuals, and which imply close communication and integration of individual functions.

Tgq Automation assessment

A task-equipment analysis to identify and assess the impact of one or more optional approaches for automating a human or human-machine function for purposes of appraising a human-machine design.

Tgqc Automation levels

Levels of involvement of machines (computers) in task performance; e.g., (1) human performs task unaided, (2) machine aids human in performing task, (3) human aids machine, or (4) task is fully automated.

Tgqe Automation effects

Effects of automating a task (or set of tasks) on human performance of other, related tasks; e.g., need for contingency backup, manpower and training implications, gain in system output, reduction of personnel needs, etc.

Tgs Task taxonomies

Formalized system for classifying tasks according to a set of characteristics, to achieve a common basis for collecting, describing, analyzing, and reporting task data, and for partitioning tasks into their basic elements.

QUANTIFICATION / ANALYSIS TECHNIQUES

QUANTIFICATION / ANALYSIS TECHNIQUES

Quantitative methods and techniques for collecting, organizing, and analyzing data reflecting human performance capabilities and costs under specified conditions.

Vc Data collection methods

Numerous techniques and methods for collecting, eliciting, or extracting data.

Vcc Interviews

v

Data collection through direct interaction of an interviewer and one or more interviewees, using structured interviewing techniques.

Vce Observations

Data collection through either obtrusive or unobtrusive monitoring, or observation, of behaviors of interest.

Vcec Direct observations

Data collection in which an observer views prescribed or natural behaviors of a subject, or subjects, and records the resulting activities or outcomes (observation may be obtrusive or unobtrusive).

Vcee Videotaped observations

Use of a videocamera, either hidden or visible, to record subjects' prescribed or natural behaviors, so as to obtain a permanent record for subsequent detailed analysis.

Vcg Surveys

A method for assessing individual or group attitudes and opinions using questionnaire and sampling methods.

Vcgc Questionnaires

Structured written survey instruments designed to assess individual attitudes and opinions concerning concepts, policies, persons, and propositions; uses various formats and types of response categories.

Vci Inventories

Catalogs or lists used for assessing the presence or absence of certain behaviors, interests, attitudes, or other items regarded as relevant for a given purpose.

Vck Longitudinal studies

Research studies which follow the research subjects' "histories" by recording subject data over a long period of time, even over many years.

Vcka Historical data

Vcm Sampling techniques

Statistical processes by which a subset of persons or observations is drawn from a larger set for study or analysis in order to make inferences about the characteristics of the larger population.

Vco Checklists

Lists of items concerning the state of a set of conditions (e.g., on/off, hot/cold, present/absent) which aid in assessing the status of a particular object (human or machine) at a given point in time.

Vcq Literature reviews

A collection, extracted from the published literature (unpublished in some instances), of references to articles, reports, books, and other forms of documentation which relate to a particular subject of interest.

Vcs Automated data collection

Use of various techniques for instrumenting a person and/or machine so that behaviors can be measured and, in some instances, analyzed as they occur.

Ve Computational techniques

Mathematical techniques for manipulating qualitative or quantitative values, and which produce a specific outcome.

Vec Algorithms Relational frameworks, rules, or "formula" procedures for solving a recurrent mathematical problem.

Vf Quantitative methods

Methods for manipulating numerical values according to specific procedures and formulae, and which achieve a particular outcome.

Vfc Statistical analysis

The process by which data are manipulated, using various statistical techniques, according to specific rules and procedures, and which produce a particular outcome.

Vfcc Statistical techniques

The various techniques by which statistical analysis is conducted; e.g., descriptive techniques, parametric techniques, multivariate techniques, etc.

Vfccc Analysis of variance

A statistical method used to determine whether the differences in the variance of a dependent variable under differing experimental conditions could have occurred by chance alone.

Vfccca Analysis of covariance

Vfcce Correlation analysis

A form of statistical analysis used to determine the degree to which two variables tend to vary together (concomitant variation); does not imply a causal relationship.

Vfccg Regression techniques

Statistical techniques (least-squares solution) for predicting a criterion score from a weighted combination of predictor scores stated in terms of a linear equation.

Vfccga Discriminant analysis

Vfccga Multiple regression analysis

Vfccga Multivariate analysis

Vfcci Fourier analysis

Analysis of sound or light emissions through representation by various properties of sine waves.

Vfcck Bayesian analysis

Procedure (after Bayes) for constructing strategies which minimize expected losses in a decisionmaking problem involving uncertainty.

Vfccm Factor / cluster analysis

A statistical procedure by which a set of "n" variables may be accounted for by a number less than "n"; identifies a more general set of dimensions (factors) underlying the original set of variables.

Vfe Cost analysis

Analysis of a particular design or approach to identify those factors contributing to its cost, assign dollar values to those factors, and perform comparative cost analyses to identify the most cost-effective approach.

Vfea CEA

Vfea Cost benefit analysis

Vfea Cost effectiveness analysis

Vfec Cost benefits

Designs or procedures which result in cost savings with respect to manpower, training, or materiel, without compromise of performance.

Vfee Cost savings

Savings gained, represented in the form of dollars, manpower, or time, by the introduction of an innovation; also includes the avoidance of certain costs heretofore borne; might also be interpreted as cost benefits.

Vfeea Cost avoidance

Vfeg Cost effectiveness

Joint consideration of the cost of a particular design or procedure and the associated level of performance attained; concerned with seeking a balance between cost outlays and level of performance.

Vfei Life cycle costs

Costs incurred throughout the life of a particular system.

Vfek Cost tradeoffs

The trading of costs in a system or project for desired increments in some output variable, or vice versa.

Vfem Utility models

Models which attempt to predict the gain or usefulness of a particular approach or strategy, usually in dollar units.

Vfg Analytic techniques

Techniques which attempt to identify relevant types or classes of data, and to provide for their analysis according to a specific set of characteristics.

Vfgc Content analysis

The process of analyzing a body of data according to a set of factors or categories of interest; suggests how the data might be organized, characterized, and reported.

Vfge Comparative analysis

Analysis of at least two sets of data for purposes of contrasting them on the basis of one or more criteria.

Vfgg Sensitivity analysis

Determining the effect of variation in one variable on the outcome of another single or composite variable; e.g., determining the sensitivity of a personnel cost measure to varying levels of education level.

Vfgi Trade-off analysis

Analysis to determine the desirable effect (gain, increase) in one variable for an undesirable, but tolerable, effect (loss, decrease) in another.

Vfi Psychometric techniques

Techniques by which stimuli are arrayed on a continuum representing an attribute of a particular sample; e.g., rankings of employees on a performance scale.

Vfk Rating scales

Continuums on which raters array ratees (or other stimuli), using various types of scaling procedures.

Vfm Operations research

A scientific discipline, emphasizing use of mathematical models, which embodies (a) a systems orientation to problem solving, (b) the use of an interdisciplinary approach, and (c) use of the scientific method.

Vfma Linear programming

Vg Simulation techniques Representation of a system and/or set of functions and their interrelationships at a sufficient level of fidelity to permit study, training, evaluation, etc., in a more controlled, usually safer, less costly, environment.

Vgc Computer simulation Use of a computer to represent one or more functions and their interrelationships, along with anticipated environmental effects, to generate data representative of that in the natural environment.

Vge Outcome simulation Computer techniques for generating various levels and types of outcomes, given certain types of inputs.

Vgea Input-output modeling

Vgea Monte Carlo procedures

Vh Models

A formalized system of principles and hypotheses concerning relation-ships among variables of interest, and associated input, process, and output characteristics; e.g., graphic models, mathematical models.

Vhb Econometric models

Models which employ various types of economic predictors in the attempt to forecast future economic conditions.

Vhc Organizational models

Models of factors which influence organizational effectiveness and which attempt to define the interrelationships among those factors.

Vhcc Organizational effectiveness models

Models which attempt to identify input states and processes (means) which are relatable to outputs (ends), so that goals and objectives can be optimized by manipulating processes.

Vhce Peer group / intergroup models

Models which attempt to identify and provide for the manipulation of variables which are felt to contribute to group performance, so that performance can be systematically improved.

Vhd Behavioral models

Models which attempt to state the interrelationships among various types of human behavior and to predict outcomes given a particular set of inputs and surrounding conditions.

Vhdc Cognitive models

Models which attempt to describe how the human perceives and processes information and arrives at an appropriate action (response).

Vhdca Mental models

Vhde Performance models Models which take as input detailed statements of required behaviors (task-related), together with predicted levels of human performance for these behaviors, and produce a predicted output performance level.

Vhdg Leadership models

Models which identify personal variables believed to contribute to quality of leadership, and which may be influenced through selection and training so as to improve leadership performance.

Vhdi Training models

Models which take as input the skill/aptitude level of prospective students, together with type of training, time available, etc., and attempt to predict attainable performance levels (also possibly related to cost).

Vhdk Human operator models

Models which attempt to map specific human behaviors involved in the operation of particular equipment or systems, each behavior having an expected value of optimum performance, so as to predict an overall performance level.

'Vhe Decision models

Models which attempt to identify and relate the manner in which the human processes information in rule-based behavior so as to arrive at a decision output.

Vhf Evaluation models

Models which provide for the definition of predictor (independent) variables and criterion (dependent) variables, and the process of their interrelation (correlation) for assessment purposes.

Vhg Policy models

Models which simulate, test, or predict the effects of a given policy intervention or change upon some outcome variable, such as productivity or morale.

Vhh Cost models

Computer models which account for various cost variables (personnel, materials, training, support) in order to predict the costs (or cost savings) of certain personnel strategies.

Vhi Combat models

Models, usually computerized, which simulate the engagement of two combatant forces by consideration of factors and circumstances which lead to probability of success or failure.

Vhia CORBAN

Vhia FORSTALS

Vhj Terrain models

Models which simulate the topography of a given type of terrain and its effect on a particular type of transport activity (ground or air).

Vhk Personnel assignment models

Models which consider job assignment openings, available personnel, and their qualifications in order to aid personnel assignment decisions.

Vhkc Rotation models

Models which consider timing and opportunities among individuals qualified to rotate from one job or location to another, and which suggest strategies that minimize personnel turbulence (e.g., sea-shore rotation models).

Vhkca Sea-shore rotation models

Vhm Planning models

Models which provide for the identification of objectives, tasks required to achieve them, and the associated phases, or time durations, required; allows for the detection of "critical" tasks or process paths.

Vhmc Manpower models

Models which take as inputs required qualitative/quantitative manpower requirements and relate available manpower sources to those requirements to forecast shortfalls.

Vhme Forecasting models

Models based on known (or hypothesized) relationships among a set of relevant variables which may be exercised with actual or hypothetical data to predict a future outcome; may also include time constraints.

Vhmea Prediction models

Vhn Computer models

Models which use computer technology to represent the variables of a given system or problem; allows numerous hypothesized input states to be tested to identify one or more possible outcomes.

Vho Mathematical models

Use of mathematical formulas or equations to describe and express relationships among variables of interest.

Vhoa Computation modeling

Vhp Graphical models

Models which define the relationships between input, process, and output states through graphical techniques, as in a flow diagram.

Vhpa Blackboard models

Vhpa Breadboard models

Vhq Stochastic models

Models based on a branch of probability theory in which sequences of events being modeled have probabilities of occurrence which are constantly changing.

Vhr Heuristic models

Models which stimulate thought and can lead to innovative concepts; constructs based on assumptions yet to be proven which lead to new areas of research and empirical investigation.

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Vhs Deterministic models

Models which provide insight into the causal relationship between changes in one variable (or composite set of variables) and changes in another (criterion) variable (e.g., a multiple regression model).

Vht Maximum likelihood models

Decision theory approach to estimating a parameter from an observed value where the estimator selected maximizes the likelihood function; i.e., finding that value of an estimated parameter with the largest likelihood of occurrence.

Vhu Optimization models

Models which provide for optimizing a given output level, or event likelihood, through control and manipulation of inputs and process variables.

Vhv Mockups

Functional or static physical representations of systems or subsystems for the purpose of identifying and testing alternative design approaches (e.g., an aircraft cockpit mockup).

Vhva Physical models

Vhva Scale models

Vhw Simulation models

Computer models which attempt to reproduce a given level of fidelity in the functional relationships of a particular man-machine design, so that various conditions and alternatives may be tested against performance (output) criteria.

Vhy Model development

The process by which various types of models are developed; techniques depend upon the type of model to be developed (e.g., graphic, physical, mathematical, probabilistic, etc.).

Vhye Model validity

The degree to which a given model accurately predicts output levels and products attained using empirical data.

Vj Testing theories / factors

Theories and practices underlying the construction and use of psychological tests.

Vjc Test response faking

Intentionally providing incorrect or inaccurate responses to test items, either for purposes of self gain, or to give the test administrators whatever responses may be judged to be expected.

Vje Field dependence theory

Theory based on trait patterns theoretically related to visual stimulus fields; field dependence is characterized by passivity, lack of self-confidence; field independence is characterized by assertiveness and self-confidence.

Vjg Attribution theory

Theory based on the tendency of individuals to attribute the outcome of a behavior either to an internal cause (the acting person) or to external causes (the situation).

Vji Latent trait theory

Personality theory based on a description of relatively enduring characteristics of persons inferred from observation/tests, wherein some traits emerge as a result of life experience; e.g., source trait, surface trait, latent trait.

Vjk Item-response theory

Theory concerning the manner in which the human test taker reads and interprets various types of test items, and the manner in which the response is formed and made.

Vjo Test response guessing

Bias which occurs when a test format (e.g., true-false) allows a test taker to guess as to the correct response to an item; some tests include a correction for guessing.

Vk Test construction / validation

Techniques and procedures for developing test items, constructing tests of various types, and assessing test accuracy and utility through initial and cross-validation procedures.

Vkc Test design

Identification of the attributes to be measured and selection of the appropriate psychometric approach for their assessment.

Vkca Instrument construction

Vke Automated test construction

Use of a computer program, test construction rules, and a data store of test items or materials to develop a particular form of test.

Vkg Test items

Items developed to measure a particular attribute to be measured by a test; important parameters are form of response, item difficulty, and item discrimination level.

Vki Criteria development

Development of dependent measures of performance for use as criteria in (1) test development and validation, and (2) evaluating training techniques, design options, etc.

Vkk Test norms

Standardized values (usually in percentiles) which allow test scores from various individuals and groups to be compared and evaluated.

Vkm Test calibration

Development of test norms by administering a test to a new subject group, so that their test performance may be compared with that of other groups.

Vko Test weighting

Weighing tests differentially on the basis of their respective ability to account for unique variation in a criterion measure; involves use of correlation or regression techniques.

Vkq Test validity

Estimate of a test's accuracy; involves the correlation between test scores and scores on an external criterion of performance, indicated by a numeric correlation coefficient; cross-validation uses an independent sample of subjects.

Vkqa Test accuracy

Vks Test reliability Estimate of the consistency of a test; involves correlation between test scores and theoretically true test scores, indicated by a numeric correlation coefficient; may use internal consistency techniques or test-retest methods.

Vkw Test bias

Bias occurring when test scores are influenced by variables other than those intended to be covered by the test.

Vkwc Culture-free tests

Tests whose scores are not influenced (biased) by the cultural background of the test taker; culturally fair tests, color-blind tests.

Vm Test administration

Procedures involved in administering a test to an individual or group, requiring careful adherence to proper guidelines in order to limit bias from various potential sources.

Vmc Test administration bias

Bias entering into test results due to test administration; may result from differential treatment across individuals/groups due to administration time, manner of instruction, environmental conditions, quality of proctoring, etc.

Vme Test scoring The process of determining a score on a test using some type of scoring key and scoring procedure.

Vmec Computer-based test scoring Test scoring which uses a computer-based device for scanning test answer sheets, deriving individual test scores, computing a composite test score, and, perhaps, printing out norms and graphical interpretations.

Vn Testing environment The general physical environment within which tests are administered; includes illumination, temperature, noise, interruptions, crowding, etc.

Vnc Laboratory tests Tests performed under laboratory conditions, which usually provide for high levels of control on test variables and subjects.

Vne Field tests

Tests designed to be conducted in the "field," or in the environment in which the person or device to be tested ultimately is to function.

Vnea Ground-based tests

Vng In-flight tests

Tests which involve some aspect of aircraft design or operation, and which are performed during actual flight.

Vp Test purpose The stated purpose for which a test is being constructed or administered; defined in terms of why the test is given.

Vpc Screening tests Tests of relatively coarse (broad) discriminability, used for elimination of individuals clearly unqualified for a particular job or task.

Vpcc Qualifying tests Tests for which a minimum score has been established as a standard for acceptance.

Vpce Selection tests

Various psychometric tests which are used to determine whether an individual (e.g., an enlistee in the armed Services) meets minimum standards for admission.

Vpe Diagnostics

Test procedures constructed with the purpose of identifying specific factors which are known to contribute to the level of performance, and which subsequently may be remedied to improve performance.

Vq Testing methods

Methods used to present stimulus questions to the test taker, record responses, and score and interpret results; defined in terms of how testing is accomplished.

Vqc Computerized adaptive testing

A testing method in which a computerized test is progressively adapted to the test taker's answers, so as to minimize testing time while maximizing test score reliability.

Vqca CAT

Vqe Computer-aided tests

Tests which use a computer as an aid in administration and scoring, question generation, stimulus presentation, item selection, subtest composition, results interpretation, etc.

Vqg Simulator-based tests

Tests in which a simulator is used to present the testing situation, record the test-taker's responses, and score and interpret test performance.

Vqi Performance-based tests Tests which involve actual performance of test behaviors and require nonverbal responses rather than verbal, thus minimizing the role of language and verbal behavior. (See Vqo)

Vqic Simulated-task performance tests

Tests which simulate a primary task, or task set, for purposes of performance assessment.

Vqie Hands-on tests

Tests which are administered by actual use of the tools, equipment, and materials employed in a particular job or task; similar to job-sample tests.

Vqig Job-sample tests

Tests in which a specific sample of actual job behavior has been extracted and represented in performance test form; have high construct validity.

Vqk Written tests

Tests which involve written test items, with responses made in written form on an answer sheet; also called "paper-and-pencil" tests.

Vqka Paper-and-pencil tests

Vqm Test battery

A set of tests of various forms combined into a test "battery" through the use of step-wise multiple regression techniques to produce a single predicted criterion score.

Vqo Nonverbal tests

Tests which minimize the role of language and verbal behavior, and require nonverbal responses (as performance-based tests). (See Vqi)

Vqq Self-assessment tests

Tests designed for an individual to assess his own attitudes, opinions, skills, or abilities.

Vqs Decision-oriented tests

Tests which are directed toward assessing inductive or deductive reasoning, based on problem situations and rule-based behavior.

Vs Test types

Various tests, testing techniques, and test categories involved in assessing human perceptual, motor, and cognitive aptitudes and abilities; defined in terms of what is tested.

Vsc Mental ability tests

Tests designed to measure individual mental ability (mental alertness, cognitive ability) and to provide a mental ability score relatable to normative data, including intelligence scores.

Vsca Intelligence tests

Vse Achievement tests

Tests designed to measure an individual's current level of proficiency in a particular knowledge or skill area.

Vsg Aptitude tests

Tests designed to measure an individual's capacity or potential ability to perform a task as yet unlearned, or demonstrate a certain skill heretofore undemonstrated.

Vsi Training performance tests

Tests designed to help evaluate performance in a particular training environment.

Vsk Psychological tests

Tests which purport to measure psychological processes; i.e., cognition, perception, psychomotor behavior, etc. (See Vs)

Vsm Psychomotor tests

Tests designed to measure perceptual-motor skills and abilities, such as a pursuit-tracking test, fine-finger dexterity test, etc.

Vso Skills tests

Tests designed to measure level of performance on specific skills or abilities, usually for the purpose of qualification or promotion.

Vsq Job performance tests

Tests which require actual performance of a specific set of job tasks considered to be critical to successful performance of a particular job.

Vss Human performance tests

Tests which require actual performance of the test behaviors under assessment, organized into a testing format; includes tests of physical ability and stamina.

Vu Named tests

Various specified psychological tests used for selection, screening, and assignment to support general and specialized personnel management decisions.

Vuc Air Force Officer Oualifying Test A screening test used to select for Air Force Reserve Officer Training Corps (AFROTC) scholarships, and Officer Training School (OTS); also may be used to select and classify pilots and navigators, and at the Air Force Academy. Vuca AFOOT Vue Air Force Vocational and Occupational Interest Inventory A vocational and occupational interest inventory composed of 18 subscales, and used in research, career counseling and job assignment. Vuea VOICE Vug Armed Forces Oualification Test Test score composite formed from ASVAB subtests which categorizes enlistment candidates according to cognitive ability; i.e., Category I, II, IIIa, IIIb, and IV; determines eligibility for various job/school assignment options. Vuga AFOT Vui Armed Services Vocational Aptitude Battery A battery of aptitude tests administered to all entry-level recruits in all the armed Services used to aid selection and assignment decision making. Vuia **ASVAB** Vuk **Army Skill Qualification Tests** Job sample performance tests which involve use of equipment and material used on the job to measure mastery or nonmastery of critical job tasks and provide fair measures of job performance. Vuka SOT Vum **Computerized Adaptive Screening Test** Computerized version of the Enlistment Screening Test (EST), administered on Joint Optical Information Network (JOIN) in Army recruiting stations to identify applicants not likely to meet ASVAB gualifying standards. Vuma CAST Vuo Flight Aptitude Selection Test A paper-and-pencil aptitude test battery used to establish applicant eligibility and performance in flight training; used for screening applicants for the Initial Entry Rotary Wing program in the Army. Vuoa FAST Vuq Military Screening Inventory Screening test administered to recruit candidates to identify those not likely to adapt to the military and likely to fail to complete their initial tour of duty in the Service; used in conjunction with personal history data.

√uqa MSI

Vus Scholastic Aptitude Test

A battery of aptitude tests administered by the Educational Testing Service and used widely for determining individual college entrance qualifications.

Vusa SAT

Vuu Strong Campbell Interest Inventory Compares a person's interests with those of people successfully employed in a specific field; includes scores on six occupational themes, 23 basic interest scores, and interest scale scores for over 200 occupations.

Vuua SCII

Vuua SVIB

Vw Predictor variables

Variables which have been shown to predict subject scores on a dependent criterion variable.

Vwa Estimators

Vwc Cognitive predictors

Variables which predict cognitive ability, such as arithmetic reasoning, verbal ability, abstract reasoning, spatial relations, inductive/ deductive problem solving, etc.

Vwe Noncognitive predictors

Predictors which are not "loaded" on cognitive ability, such as perceptual-motor predictors involving eye-hand coordination, fine-finger dexterity, pursuit-tracking ability, etc.

Vwg Aptitudinal predictors Variables which predict an individual's capacity or potential ability to perform a task or demonstrate a skill.

Vx Performance ratings Ratings of job/task performance quality made by raters who have knowledge of ratee's performance.

Vxc Peer ratings

Ratings of an individual's job/task/training performance quality made by his/her peers.

Vxe Supervisory ratings

Ratings of subordinates' job/task performance quality made by supervisors.

Vxg Rater / evaluator materials

Materials developed to aid raters or evaluators in making more valid and reliable ratings; help to improve relevance and consistency of ratings, and to reduce bias and contamination.

Vxi Rater reliability

A measure of the consistency with which raters agree with other raters (inter-rater), or tend to reproduce their own ratings from one occasion to another (intra-rater).

SAFETY / ENVIRONMENTAL FACTORS

W SAFETY / ENVIRONMENTAL FACTORS

Those factors within occupational and natural environments related to health and injury risk, and which influence the quality of human performance.

Wc Safety Optimum degree of safety consistent with the requirements of the mission of a particular system.

Wce Safety assessment

Identification of safety and health hazards, with potential approaches for hazard reduction.

Wcg Safety improvement

Incorporation into system design (or work environment) of approaches for elimination, reduction, management, or control of safety hazards; involves planning, implementation, and execution of interventions to meet safety requirements.

Wcga Hazard reduction

Wci Workplace safety

Optimum degree of work safety consistent with job requirements, minimizing or eliminating safety risks arising from mechanical, chemical, environmental, or procedural hazards.

Wcia Occupational safety

Wck Nuclear safety Safety considerations related to protecting human life from radiological health hazards.

Wcm Emergency procedures

Procedures and practices established which provide for proper immediate responses to hazardous or life-threatening situations.

Wco Accidents

Personnel injury, death, or illness resulting from inadvertent, unintentional, unsafe acts by personnel, or from unsafe conditions of equipment, materials, surrounding environment, or a combination of these.

Wcoc Accident analysis / prediction / prevention

Analysis to identify potential accident causes, to predict the degree of severity and likelihood of occurrence, and to advance approaches for accident reduction to tolerable levels, or outright elimination.

Wcoe Accident data

Data collected on various types of accidents which show frequency, human involvement, precipitating causes(s), and outcomes with respect to any personnel health implications or injuries.

Wcog Accident costs

Costs involved in medical treatment, lost work time, and emotional trauma resulting from an accident; may also include equipment damage.

Weq Injury Physical trauma to the human hady sufficient to require medical attention

Physical trauma to the human body sufficient to require medical attention.

Wcqg Injury analysis / prediction / prevention

Analysis to identify potential hazards to personnel safety, predict the degree of severity and likelihood of occurrence, and to advance approaches for hazard reduction to tolerable levels or outright elimination.

Wcr Occupational hazards Hazards to human health and safety which are indigenous to a particular occupation.

Wcra Workplace hazards

Wcrc Radiological hazards Hazards resulting from proximity to radiological materials, as in nuclear reactors.

Wcrca Nuclear hazards

Wcrca Radiation

Wcre Biological hazards

Hazards arising from the presence of pathogenic microorganisms which threaten infection, and, therefore, human health and well-being.

Wcrg Chemical hazards

Hazards arising from the presence of toxic chemicals or materials.

Wcri Fire Hazards

Hazards arising from the presence of flammable or explosive materials.

Wcrk Eye hazards

Hazards to human eyesight arising from flying particles, or chemical or radiation hazards.

Wcrm Hazardous materials

Materials whose use or presence can cause death, injury, acute or chronic illness, disability, or reduced job performance.

Wcrmc Explosives

Unstable materials or ordnance having the potential for being ignited or detonated, with the associated risk of death or injury.

Wcro Pollutants

Foreign material or toxic substances found in food, water, and air which could have serious health effects, causing death, chronic illness, disability, or reduced performance effectiveness.

Wcroa Emissions / smoke / vapors / dust

Wcrq Ventilation

The replacement of "stale," or polluted, air with fresh (purified) air on a volumetric basis (cubic meters) over a specified time period.

Wcs Decontamination

The process of removing the residue of toxic chemicals or radiologically charged dust and debris from work spaces, clothing, equipment, etc.

We Environmental factors

Conditions in the work or natural environment that, under specified conditions, can influence the level of human performance, or threaten personnel health and safety.

Wec Weather conditions

Summary statement of the meteorological conditions existing at a point in time, and which define external environmental conditions.

Wed Temperature

Usually, the dry-bulb air temperature, given in degrees Fahrenheit or Celsius; interacts with humidity and air movement ("wind factor") in affecting human comfort.

Wef Humidity

A measure of the amount of moisture contained in the air, measured by the difference between dry bulb and wet bulb temperatures; interacts with temperature and air movement in affecting human comfort.

Weg Atmospheric pressure

Force exerted by the weight of the atmosphere on a unit area and measured by a barometer in inches of mercury (barometric pressure); decreases as altitude increases, about 1 inch for every 1,000-foot ascent.

Wei Altitude Height above the earth measured from average ground level (AGL), or from sea level (MSL).

Weic Low altitude

Refers to aircraft mission flight in the range from just above treetops to approximately 18,000 feet.

Weie High altitude

Refers to aircraft mission flight above 18,000 feet, or, for human performance considerations, above 15,000 feet; may involve specially design aircraft.

Wej Wind force

The force of wind, in miles-per-hour, moving over the earth's surface, generated by atmospheric pressure differentials and influenced directionally by the earth's rotation, which produces pressure gradients.

Wejc Windblast

High-velocity winds, usually generated by relative wind circumstances; e.g., windblast resulting from the sudden failure of an aircraft windscreen, or windblast generated by jet aircraft exhaust on the ground.

Wejca Jetblast

Wel Illumination

Radiant energy (light) which is visible and derives from two sources: (1) incandescent bodies ("hot" sources, e.g., the sun and electric light bulbs); (2) luminescent bodies ("cold" sources, occurring in the natural environment).

Wela Lighting

Wela Luminescence

Welc Daylight Illumination produced by the sun.

Welca Sunlight

Wele Glare Spectral reflection from a polished surface which interferes with vision.

Welg Artificial lighting Lighting provided by sources other than sunlight.

Wem Visibility

A measure of how well an object can be seen by the human eye, and involving human judgment; highly influenced by contrast, informational criteria, and exposure time.

Weo Motion

Movement of the human body through space at various velocities and directions (vectors), resulting in various gravitational force levels.

Weoc G-forces "Gravitational" forces (negative and positive) imposed on the human body by changes in rate and direction of motion.

Weoca Gravitational forces

Weoe Acceleration / deceleration Rate of change of movement of a human body (or other object), expressed in feet-per-second-per-second; basic unit of acceleration is G; changes may be in velocity (linear acceleration) or in direction (rotational acceleration).

Weq Noise

Extraneous, noxious, and potentially harmful auditory stimulus (sound), often an unwanted byproduct in a work environment, and bearing no useful or informational relationship to the immediate task.

Weqc Low-frequency noise

Work environment noise associated with low to extremely low-frequency sounds, which, even when inaudible, may produce harmful effects, including stress, under sustained conditions.

Weqe High-frequency noise

Work environment noise associated with high to extremely high-frequency sounds, which, even when inaudible, or barely audible, may produce harmful effects, including stress, under sustained conditions.

Wes Vibration

Regular or irregular waveform motion in air, equipment, or work structures, having a particular direction, frequency, and intensity, and, through transmission to humans, having potentially harmful effects upon health/safety.

Wesc Low-frequency vibration

Whole-body vibration, generally less than 100 Hz, typically encountered in trucks, tractors, aircraft, etc.

Wese High-frequency vibration

Whole-body vibration, generally more than 100 Hz, typically encountered in laboratory studies.

Wesg Recoil

The abrupt, secondary force transmitted in a direction opposite to that of the direction of an initial primary force (e.g., the "kickback" of a rifle when fired).

Weu Electromagnetic radiation

Energy emitted by a radio, radar, sonar, etc., usually at very high frequencies, exposure to which at high levels over time constitutes a health hazard.

Wew Birdstrike

Impact of a bird on the windscreen of an aircraft, which, at such high velocities, can cause disintegration of the windscreen and pilot injury or death.

Wg Physical environment

That part of the external environment characterized by such variables as temperature, illumination, space, motion, etc. (excludes social environmental variables).

Wgc Natural environment

That part of the earth's environment occurring "naturally," and that is essentially uncontrolled by man (e.g., weather, topography, temperature, precipitation, wind, etc.).

Wgcc Desert environment

An environment characterized by aridity, low humidity, high daytime temperatures, minimum vegetation, and sparse human population: generally good visibility except under conditions of blowing dirt/sand.

Wgce Mountain environment

An environment characterized by irregular, often rocky, terrain, relatively high altitudes (with reduced oxygen), cooler temperatures, running water, light-to-moderate foliage, and generally clear air with good visibility.

Wgcg Wooded / jungle environment

An environment characterized by dense foliage (varying widely in type and penetrability), multiple leafy canopies, attenuated sunlight, dampness and higher humidity, relatively high temperatures, and minimum visibility.

Wgci Marine environment

An environment associated principally with the world's oceans, and characterized by a water habitat ranging from seashore to undersea environments.

Wgcic Underwater environment

The liquid water environment (especially of the oceans) defined by depth pressures, lower visibility, cold temperatures, salinity, oxygen content, pH level, current movement, etc., and which supports marine lifeforms.

Wge Aerospace environment

The environment characterized by the operation of aircraft and space vehicles; "aero" typically connotes "aircraft operation," whereas "space" connotes "spacecraft operation."

Wgg Shipboard environment

The environment characterized by the personal space, temperature, humidity, motion effects, noise, conveniences, routine, interpersonal relations, etc., generally found on board Navy ships.

Wgi Battlefield environment

That environment characterized by life-threatening combat dangers, noise, confusion, high levels of psychological and physiological stress, high uncertainty, fear, fatigue, etc.

Wgia Battlefield conditions

Wgk Protective shelters

Permanent or temporary enclosures by which personnel may be shielded or protected from environmental hazards or untenable physical conditions.

Wi Workplace environment

Those conditions involving the nature and pace of work, interpersonal relationships, and physical environmental factors (noise, lighting, cleanliness, design) which, together, characterize a given workplace.

Wia Working conditions

Wic Habitability

Environmental "friendliness" of a physical space intended for human habitat; i.e., the ease with which a living or work space may be inhabited; e.g., personal space, lighting, temperature, ventilation, noise, accommodations, etc.

SYSTEMS / EQUIPMENT

X SYSTEMS / EQUIPMENT

Specific types of military or civilian systems/equipment which involve some aspect of human interaction and performance specified by one or more core facets, principally E (Education and Training) and H (Human Factors Engineering).

Xc Weapon systems / equipment

Those military systems involving target sensing, tracking, designation, weapon selection, aiming, firing and control, and target destruction.

Xcb Crew stations

Work stations for one or more operator personnel, designed as part of a vehicle where a particular function is performed.

Xcc Aircraft weapons

Weapon systems installed in aircraft, including the sensor, fire control, and weapon subsystems.

Xcd Anti-aircraft weapons

Weapon systems dedicated to detecting, tracking, and destroying enemy aircraft; weapon could be either a projectile or a missile.

Xcda Anti-aircraft artillery

Xcf Anti-armor weapons Weapon systems with the specific capability to destroy armored vehicles, either ground-to-ground or air-to-ground.

Xcfc Anti-tank weapons Weapons systems with the specific capability to destroy enemy tanks.

Xcg Artillery

Mobile, large-caliber weapons which are served by a crew and fire control system, and which fire explosive projectiles up to 20 miles with considerable accuracy.

Xcga Dragon

Xcga Field artillery

Xcga Howitzer

Xcgc Artillery support systems

Personnel and equipment that provide operational support for artillery crews.

Xci Missiles

Self-propelled ground- or air-launched weapons fitted with propellent (booster) charge, a guidance section, and a warhead.

Xcia	Cruise
Xcia	Hawk
Xcia	Minuteman
Xcia	Patriot
Xcia	Stinger
Xcia	TOW
Xcia	Tomahawk

Xcj Chemical / biological / radiological weapons Weapons which use chemical agents, biological organisms, or nuclear energy to achieve weapon effects.

Xcja CBR weapons

Xcl Space-based weapons

Weapons which are placed in earth orbit for purposes of destroying other orbiting weapons or surveillance systems, or for countering weapon systems based on earth.

Xcm Line-of-sight systems

Systems wherein the target may be visually acquired by the weapon system operator, even though optically aided; includes direct-fire weapons.

Xcmc Direct-fire weapons Handguns, large- and small-caliber rifles, anti-tank guns, etc., that have a line-of-sight relationship with the target.

Xcn Indirect-fire weapons Mortars, hand grenades, free-fall aerial bombs, etc., which do not (necessarily) have a line-of-sight relationship with the target.

Xco Intelligent weapons Weapon systems in which target tracking, homing, or command information are provided by a computerized device.

Xcoa Smart weapons

Xcp Individual weapons Weapons which may be transported and used by an individual soldier or a soldier team.

Xcr Small arms

Arms which can usually be carried by one person including pistols, rifles, grenade launchers, light automatic weapons, etc.

Xcra Automatic weapons

Xcra Rifles

Xcs Machine guns

Weapons which can be fired continuously without recycling the trigger, releasing many rounds of ammunition in rapid succession with one depression of the trigger; some require two operators.

Xct Laser range finders

Range finders which use ruby laser devices to illuminate a target to obtain range information; may be data-linked to a weapon delivery system.

Xcw Helmet-mounted systems

Systems which use helmet-mounted displays for presenting various types of command/control information to the human operator.

Xcx Ordnance A general category that includes guns, ammunition, explosives, fuses, support equipment, and materiel.

Xcxa Ammunition

Xcy Sights

Various devices which allow a weapon to be properly aligned with a target so as to afford a high probability of a hit.

Xcya Optical sights

Xcya Thermal sights

Xd Ground vehicles / vehicle systems

Vehicles, both wheeled and tracked, which operate over terrain, and their maintenance, fuel, and other support systems.

Xdc Ground combat vehicles Wheeled and tracked vehicles which operate over terrain, and are designed for contact with enemy forces.

Xdca Ground fighting vehicles

Xdcc Armored vehicles

Wheeled and/or tracked vehicles which are provided with steel (or other) armor plating to protect the vehicle and its occupants from enemy fire.

Xdccc Light-armored vehicles Vehicles, usually wheeled, which are lightly armored and intended for use in transporting troops or materiel to an area of enemy action.

Xdcce Tanks

Heavy tracked vehicles equipped with communications and heavy armor plating, and typically mounting a turreted weapon (cannon) capable of destroying enemy tanks.

Xdce Fire support vehicles

Vehicles which perform communications, command/control, or target detection, tracking, and fire control functions.

Xde Tracked vehicles

Vehicles, such as tanks, which are propelled by means of a continuous metal track mounted on wheels, as opposed to those propelled only on wheels; may be amphibious.

Xe Ships / ship systems

Vessels which operate on the ocean's surface or subsurface.

Xec Surface ships Ships which operate on the surface of the ocean.

Xecc Aircraft carriers

Very large ships (approaching 80,000 tons) whose primary mission is to provide a platform for power projection and strike warfare using an embarked air wing composed of surveillance, ASW, attack, and fighter aircraft.

Xece Surface effect ships

Ships that ride on a shallow cushion of forced air which raises the hull of the ship slightly above the water's surface, thus decreasing friction and increasing ship's speed and maneuverability; may be amphibious.

Xecea Hovercraft

Xecea SES

Xecg Amphibious assault ships

Ships designed to support amphibious operations in force projections by landing and supporting assault troops through the use of helicopters and/or landing assault craft (e.g, LHA, LPH class ships).

Xecga Landing assault craft

Xeci Hydrofoils

Relatively small ships which, after attaining a certain speed through the water, rise upon ski-like devices (hydrofoils) for fast cruising, with greatly reduced friction and increased speed.

Xee Submarines

Vessels (generally military) specifically designed to travel and operate submerged below the ocean's surface.

Xeg Submersibles

Vessels, usually manned, and generally smaller than submarines, that have the capacity to submerge and operate below the surface of water, often in a research or repair/salvage capacity.

Xega DSRV

Xega Deep submersibles

Xega Wet submersibles

Xei Ship systems

Various systems, e.g., propulsion, communications, weapons, navigation, etc., which are installed in ships.

Xeic Bridge control systems Systems installed on the bridge of a ship which provide for communication and control of the operation of the ship from that position.

Xf Aircraft A vehicle capable of flight.

Xfc Fixed-wing aircraft

Aircraft in which lift is obtained through the use of a large-surface wing fixed to the aircraft fuselage (as opposed to aircraft whose "wings" rotate, as with a helicopter).

Xfcc Fighter aircraft

Aircraft whose primary mission is the destruction of enemy aircraft in air to air combat.

Xfcca F-117 Night Hawk

Xfcca F-14 Tomcat

Xfcca F-15 Eagle

Xfcca F-16 Fighting Falcon

Xfcca F-18 Hornet

Xfcca F-22 ATF

Xfce Attack aircraft Aircraft designed to attack ground-based targets usually in support of tactical warfare missions.

Xfcea	A-10
Xfcea	A-6 Intruder
Xfcea	A-7

Xfcea F/A-18 Hornet

Xfcg Tactical aircraft

Aircraft whose mission is against tactical targets; i.e., targets geographically close (relatively speaking), usually in support of ground warfare.

Xfci Strategic aircraft

Aircraft whose mission is attacking geographically distant targets for the purpose of destroying enemy warfighting capability.

Xfcia	AWACS
Xfcia	B-1 bomber
Xfcia	B-2 Stealth bomber
Xfcia	Reconnaissance aircraft
Xfck	Cargo aircraft
Aircraft desig point.	ned to transport materiel and personnel over relatively long distances into a disbursement
	ned to transport materiel and personnel over relatively long distances into a disbursement C130 Hercules
point.	
point. Xfcka	C130 Hercules

Xfcka C5 Galaxy

Xfe Rotary-wing aircraft

Aircraft, generally helicopters, designed with long, narrow, directional rotors (rotating "wings") mounted above the aircraft so as to provide lift and sustain flight.

Xfea	AAH Advanced Attack Helicopter
Xfea	AH-1 Cobra
Xfea	AH-64 Apache
Xfea	CH-47 Chinook
Xfea	Helicopters
Xfea	LHX Light Helicopter Experimental
Xfea	OH-58 Scout
Xfea	UH-60 Blackhawk
Xfg	VTOL / VSTOL aircraft

Aircraft having the capability to take off and land essentially vertically, or with a very minimum of horizontal runway area. aircraft.

Xfga AV-1 Harrier

Xfga V-22 Osprey

Xfi Multi-mission aircraft

Aircraft designed to perform more than one mission, such as the F/A-18 Hornet, which can perform both fighter and attack missions.

Xfk Training aircraft

Aircraft used at various phases in the mission of training aircraft pilots.

Xfm Aircraft systems

Various systems installed in aircraft to perform such functions as flight control, propulsion control, communications, weapons control, navigation, etc.

Xfmc Cockpit systems

Systems which are installed, or whose pilot-interface modules are installed, in an aircraft cockpit; e.g., display-control systems, communications, navigation, ejection/escape systems, etc.

Xfme Flight control systems Systems which control the attitude and performance (roll, pitch, yaw, thrust) of an aircraft in flight.

Xfmea Flight management systems

Xfmec Automated flight control systems

Systems which maintain level flight, follow preprogrammed flight profiles, or navigate an aircraft between two or more points using internally generated or externally sensed navigation/location information.

Xfmg Avionics systems

A general class of aircraft systems including electronic equipment used in communication, navigation, and weapons system operation.

Xfmi Low-altitude flight systems

Flight systems which usually employ radar-sensed altimetry and automatic flight control to maintain sustained flight at a consistent low-altitude (100 feet) while avoiding obstacles.

Xfmia Terrain-following flight systems

Xg Space vehicles / systems Vehicles and supporting systems designed to operate in earth orbit or beyond, including systems placed in orbit without intention of recovery (certain satellites) and those that return, or are recovered, from orbit (space shuttle).

Xga Aerospace vehicles / systems

Xga Space platforms

Xgc Space capsules

Space vehicles designed to support human life in space; e.g., the Mercury and Apollo space capsules.

Xge Rocket launch systems

Launch systems utilizing chemical-propellant rockets capable of generating sufficient thrust to overcome earth's gravitational forces to boost various vehicles or payloads into earth orbit or into outer space.

Xgg Satellites

Space vehicles operating in earth orbit, usually for communications, surveillance, or meteorological purposes.

Xgi Space stations

Space vehicles or habitats, usually manned, placed into earth orbit for purposes of scientific experimentation or other space-related activities.

Xh Surveillance / detection systems / equipment

Systems designed to monitor or survey sites, areas, and locations, and to collect various types of information using special-purpose sensors.

Xhc Sensor systems

Systems designed to detect various forms of energy (active or passive), providing information on the presence of entities important to warfighting capability.

Xhcc Acoustic sensors

Sensors designed to detect objects by sensing sounds emitted and reverberated from the object, usually in a liquid medium.

Xhcce Sonar

Sound-based detection system: active sonar emits a pulsed transmission of sound waves ("pinging") in water to detect and track underwater targets; passive sonar detects sound originating from a target (ship's propeller noise).

Xhce Electro-optical sensors

Sensors which collect information through use of optical or electronic means.

Xhcg Infrared detection

Detection using systems which detect radiation in the infrared portion of the electromagnetic spectrum, and provide a pattern of sensed information for surveillance or target detection and designation.

Xhcga FLIR

Xhcga LANTIRN

Xhci Magnetic detection Detection of an object with devices which sense the differences (anomalies) in magnetic fields.

Xhck Motion sensors

Sensors which detect small increments in the relative motion of an object against a stable background; used in target detection.

Xhcm Radar

Electromagnetic detection system which provides range and azimuth information on possible targets through the return of pulses reflected off the objects.
Xhco Thermal detection

Passive detection of objects by the level of heat radiation emitted from them, usually using infrared sensors.

Xhe Surveillance processing systems

Systems designed to process surveillance information and data, organize the data into a useful framework, and report the information on command, or store it for later use.

Xhg Signal detection systems

Systems, including hardware sensors and human sensory mechanisms, used to detect the presence of a useful signal over a noise background.

Xhi Night vision systems Systems which, through various techniques for collecting and enhancing available light, improve human visibility at night.

Xhic Night vision goggles Goggles equipped with an optical system which collects and enhances available illumination in order to greatly improve visibility at night.

Xi Air traffic control systems

Radar and communications systems used to control aircraft traffic in an airway system, including the approach to and departure from air terminals.

Xj Navigation systems / equipment Systems and equipment which aid in determining a traveller's location on the earth's surface and proximity to geographic features of interest, and which provide direction and guidance in travelling.

Xk Command / control / communication systems / equipment A broad classification of systems and equipment used for receiving, processing, distributing, transferring, and updating information of vital importance to the operation of a warfighting system.

Xka C3 systems

Xkc Telemetry systems Systems, typically found on aircraft or other vehicles, which sense and encode various types of information signals and transmit them to receiving stations.

Xke Communication systems Systems and equipment whose primary function is information transmission and distribution.

Xkec Fiber-optic communications

Communication which uses fiber-optic cable technology, as opposed to conventional electrical wiring, thus greatly increasing data transmission rate and volume.

XkeeTelecommunicationsTransmission of voice or data using either hard lines, or medium- or high-frequency radio.

Xkeg Internal communications

Use of communications systems installed within a ship, aircraft, or other vehicle and intended for crew intercommunications (hence, "intercom" system).

Xkei Underwater communications

Communication through the use of systems which transmit at a specific low-frequency band in a water medium to allow communications over extremely long distances.

Xkek Message systems

Systems which provide for the quick generation, transmission, and distribution of messages to one, several, or many addressees, and which may provide for feedback to the originator.

Xkekc Electronic mail

Systems which use computers (usually micros or PCs) to transmit messages from station to station over dedicated lines, or use acoustic couplers and telephone lines (e.g., ARPANET).

Xkem Radio

A medium- or high-frequency electronic voice communication system which transmits sound through space.

XI Automated systems / equipment

Systems, equipment, and devices which use a digital computer to perform one or more functions "automatically" that might have been previously performed by humans.

Xla ADP equipment

Xlc Computers

High-speed, electronic equipment designed to store their own instructions, and capable of executing those instructions on input data.

Xlcc Supercomputers

Computers designed to be significantly larger and/or faster than conventional mainframe computers (e.g., Cray-1, ETA-10 vector processors, Intel iPSC parallel processor).

XIce Mainframe computers

Large, high-capacity computers designed to support typically 50-500 users at one time (e.g., IBM 370, IBM 3081).

Xlcg Minicomputers Computers intermediate in size between a mainframe computer and a microcomputer; usually support from 10-100 users at a time (e.g., Digital Equipment Corporation VAX, IBM System/3).

Xlci Microcomputers

Computers whose central processing units (\overline{CPU}) consist of a single integrated circuit (IC) called the microprocessor; ordinarily used by one person at a time (hence, "personal computer," or PC); (e.g., IBM PC, Apple Macintosh).

Xlcia Personal computers

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Xlck Miniature computers

Small, portable computers (under 8 pounds) having a flip-up screen and powered by batteries.

Xlcka Laptop computers

Xlcka Notebook computers

Xle Computer peripherals

Various ancillary devices connected to a computer which perform specific input, output, or storage functions (e.g., terminals, disc drives, printers, scanners).

Xlg Computer-aided systems / methods

Various devices, fixtures, and hardware whose function is to aid the human in the performance of a function or task.

Xli Interactive computer systems

Computer systems in which the user communicates with the computer through a keyboard and CRT screen, with feedback presented almost immediately by the computer.

Xm Robotics

A general term referring to systems that employ a computer and a manipulator component to perform automated tasks without supervision.

Xmc Robots

Electro-mechanical devices, operated by a computer program, which are capable of performing specific control and manipulative tasks (assembly, welding, painting, mail delivery, vehicle control, etc.) with high precision.

Xme Teleoperation

Remote control of electro-mechanical manipulators by humans through wire interconnects or through radio frequency control links; used especially to manipulate objects in hazardous environments; not robotic.

Xmg Robotic manipulators

Manipulators controlled by a computer program, performing such functions as grasping, transporting, orienting, inserting, rotating, etc., without human supervision or control.

Xmi Remote manipulators

Manual or teleoperated manipulators acting remotely from the operator in hazardous environments, with either direct or televised feedback.

Xmk Robotic vehicles

Vehicles which traverse specified courses and perform preprogrammed maneuvers while executing associated tasks according to a controlling computer program.

Xmm Robotic vision

Simulated human vision (motion detection, contrast thresholds, spatial frequency thresholds, etc.) using various computer processor models and analog neuronal networks, mimicking the response characteristics of human vision.

Xmo Robotic control

Control that is managed by a computer program interfaced with a manipulator, as with a computer-controlled robotic arm.

Xn Cybernetic systems Electro-mechanical systems which reflect human control functions and which are designed to replace them.

Xo Bionic systems

Systems constructed using applications of data about the functioning of the human biological system to the solution of engineering problems; also, electro-mechanical devices used to enhance human performance.

Xp Maintenance systems / equipment

Systems and equipment whose function is to support primary equipment through periodic preventive inspection, and troubleshooting and repair of malfunctions.

Xpc Fault detection / diagnosis systems

Systems whose function is to detect actual or potential faults, diagnose or isolate the cause of any malfunction, and provide support during repair and retesting phases.

Xpca Diagnostic aids

Xpca Fault isolation systems

Xpca Maintenance diagnostics

Xpca Troubleshooting systems

XpeFacilities maintenance systemsSystems dedicated to the maintenance, cleaning, and general upkeep of physical facilities.

Xq Intelligence systems / equipment

Systems whose purpose is to collect, analyze, and disseminate information regarding existing/potential national adversaries relevant to tactical or strategic position, and to support the defense of the nation and its allies.

Xqc Intelligence-gathering systems Systems designed to gather intelligence information on a passive or active basis, and which operate in terrestrial, extra-terrestrial (earth orbit), or ocean environments.

Xqe Intelligence analysis systems Systems designed to analyze intelligence information and to present likely scenarios or developments for consideration by decision makers.

Xr Support systems / equipment Systems whose primary mission is to provide materiel and maintenance support to operational systems.

Xrc Machinery / tools

Machinery and tools used by humans to perform highly specialized functions in the performance of repair and maintenance duties.

Xrcc Hand tools

Tools designed to be used or manipulated by humans while being grasped in one or both hands; some hand tools may be designed for two-person operation.

Xre Propulsion / power systems

Systems which provide energizing or motive forces to equipment and vehicles.

Xrec Power supply

Usually, an electrical module whose purpose is to provide electric power with specific characteristics (AC/DC) to electrically operated equipment.

Xrg Manufacturing systems

Systems whose primary purpose is to convert raw materials with certain characteristics into other, more useful forms, ranging from the simple (toothpicks) to the highly complex (automobiles), to achieve specific functions.

Xrga Production systems

Xri Security systems

Systems designed to protect personnel, materiel, equipment, computer systems, etc., from harm, theft, sabotage, or unauthorized access.

Xrk Logistics systems

Support systems designed to provide materiel and personnel support to primary systems; includes the discipline of logistics management.

Xrkc Supply systems

Systems whose purpose is to provide necessary materiel support to primary operational systems.

Xrke Storage systems

Systems designed to store materiel according to a given inventory control system and to retrieve items on command.

Xrkg Loading equipment

A broad class of equipment used to transfer materiel and equipment from one point to another in a safe and timely manner.

Xs Clothing

Various types of wearing apparel, including uniforms and special-purpose clothing worn by military personnel in the performance of either general of specialized duties.

Xsa Work apparel

Xsc Uniforms

Standardized clothing designated as the official apparel for a given military Service for specific circumstances, conditions, or events.

Xt Protective / safety equipment

Equipment and devices designed to protect all or part of the human anatomy under specified conditions.

Xtc Protective clothing / apparel

Clothing worn to protect the human from heat, cold, dust, fire, chemical/biological/radiological hazards, or other possible injury, usually for a specified time period in a particular environment.

Xtcc Flight suits

Usually one-piece suits made of flame retardant material with specialized storage pockets, and worn by flight crews during flying missions.

Xtce Space suits Suits designed with life support systems to support h

Suits designed with life support systems to support human life in the "hard vacuum" environment of space; used during extra-vehicular activity in space, and as a back-up to space capsule life support systems.

Xtcg Pressure suits Suits designed to apply pressure to the lower extremities of the human body to prevent or retard the "pooling" of blood in these areas due to G-forces, thus helping to prevent "gray-out" or loss of consciousness.

Xtcga Anti-G suits

Xtci Diving suits

Either "hard" or "soft" suits designed to provide a source of air to divers and protection against external pressure at extreme depths.

Xtck Fire-protective clothing

Clothing manufactured from flame-"resistant" materials (Nomex) or "aluminized" heat-reflective materials, and designed to protect the human fire-fighter from extremely high temperatures.

Xtcm NBC-protective clothing

Clothing manufactured of a material impervious to various radiological, chemical, and biological agents, providing the human with a mobile, self-contained, and safe environment.

Xtcma Biological-protective clothing

Xtcma Chemical-protective clothing

Xtcma Radiation-protective clothing

Xte Eye protectors

Various forms of goggles, glasses, shields, visors, etc., which protect the human eye from foreign objects, chemicals, and excessive light.

Xtea Safety glasses

Xtg Hearing protectors

Protection devices worn in the outer ear, or over the ears, which filter certain frequencies or sound pressure levels which could cause pain or damage to the human auditory system.

Xti Headgear

Various kinds of apparatus worn on the human head (e.g., helmets, hoods, head-mounted sights, earphones, etc.).

Xtia Helmets

Xtk Face masks

Masks designed for various functions and worn on the face, often as part of a larger apparatus, as with an oxygen mask incorporated into a flight helmet-microphone ensemble.

Xtkc Breathing masks

Masks which ensure or aid human breathing in foul-air or oxygen-deprived environments, either "actively" by providing a source of oxygen, or "passively" by filtering available air.

Xtkca Gas masks

Xtkca Oxygen masks

Xtm Body waste management systems

Systems, sometimes portable or built into specialized suits, designed to temporarily store and treat human bodily wastes; used in space suits, space capsules, transport aircraft, boats, etc., in absense of standard sewage systems.

Xto Thermal protection systems / equipment

Devices which serve to control or reduce the physiological effects of high ambient temperatures on the human body.

Xtoc Body-cooling systems Systems which, through various means such as heat reflection, refrigeration, or heat transfer mechanisms, serve to control human body temperature.

Xtoca Cooling vests

Xtq Life support systems / equipment Systems designed to support human life in hazardous or noxious environments through provision of basic, physiological needs (oxygen, water, nutrients, temperature control, etc.).

Xtqa Survival systems / equipment

Xts Restraint systems

Systems designed to restrain a human body's motion or compression within tolerable limits to prevent injury, as with positive and negative gravitational force conditions during flight maneuvers.

Xtsa Safety belts

Xtsa Safety harnesses

Xtu Escape systems / equipment

Systems designed to allow vehicle crews to safely escape from dangerously malfunctioning or damaged vehicles, especially under extremely adverse environmental conditions.

Xtua Crew escape capsule

Xtua Ejection systems

Xtua Parachutes

Xtw Rescue systems / equipment

Various specialized systems and equipment designed to effect the rescue of individuals from dangerous circumstances, especially from specific vehicles under widely variable conditions.

Xtwa Recovery systems / equipment

XvSystems by generic mode of operationVarious types of systems classified by energizing power mode.

Xvc Manual weapon systems

Weapon systems which are loaded, aimed, and fired with the physical, motivating force provided by the human operator.

XveBattery-operated devicesDevices whose primary source of power is a battery power supply.

Xvg Nuclear systems

Systems which use nuclear energy as the primary source of power.

XviManned systemsSystems which require one or more humans to function, or to perform major functions.

XvkUnmanned systemsSystems which do not include the human as a means for performing primary functions.

Xvm Remotely controlled systems Systems which are controlled from a remote location, either through direct wire control or by radio link.

Xvo Reconfigurable systems Systems whose major functional components have been designed so as to permit those components to be reconfigured to allow a related, but different, task to be performed.

Xvq Laser systems Systems which incorporate lasers to perform their primary functions.

Xw Systems by mission

Systems classified by their primary mission or design purpose.

Xwc Swimmer defense systems

Systems designed to defend prime targets (ships, barges, dockside facilities) in bay or riverine locations from attack by swimmers.

Xwe Airborne systems

Systems whose primary mission is performed under airborne conditions, as with an ASW system installed in an aircraft.

Xwg Underwater systems Systems designed to operate under water.

Xwi Portable systems

Systems which may be transported relatively easily, either by one or more individuals on foot, or by vehicle.

Xwia Man-portable systems

Xwia Soldier-carried equipment

Xwia Transportable systems

XwicHandheld devicesDevices which are operable while being held in one or both hands.

XwkTransportation systemsSystems designed to transport personnel, materiel, or both.

Xwm Reconnaissance systems Systems designed to collect strategic and tactical information, usually from an enemy-controlled area.

Xwma Balloons

Xwo Research equipment Various equipment used in, or to support, research.

Xwoc Human analogues

Human-like figures designed to simulate the anthropometric properties of humans in terms of size, body and limb dimensions, height, weight, etc.

Xwoca Crash dummies

Xwoca Mannequins

Xx Optical systems

Systems which incorporate optical elements or devices to collect and transmit light and/or to project images.

Xxc Projection devices Optical devices which provide for the projection of still or moving images on a screen or viewing surface.

Xy Transferable / exportable systems

Systems which may be transferred from one application to another, or used equally well in different sites or installations.

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MEDIA / DOCUMENTS

Y MEDIA / DOCUMENTS

Documentation and materials used to develop, impart, or to exchange information in conjunction with functions contained in one or more of the other sections of this thesaurus.

Yc Retrieval aids

Various alphabetic and numeric systems involving contextual hierarchies, key words, and alphabetical listings, which allow precise encoding and permit information storage and retrieval within acceptable levels of precision.

Ycc Indexing languages

Alpha, numeric, or alpha-numeric coding systems by which various input data (topics, titles, subjects, descriptions) may be indexed (coded), and then retrieved according to a particular user query without loss of information concepts.

Ycca Thesauri

Ycca Vocabularies

Yce Listings / indexes Various lists and indexes, systematically organized for reference purposes.

Ycea	Bibliographies
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Ycea Catalogs

Ycea Taxonomies

Ye Print materials

Documentation which is produced through various printing processes, versus that provided by other processes (e.g., photographic, computer media).

Yea Written materials

Yee Guides / manuals

Documents which describe, illustrate, explain, and instruct users, operators, and maintainers in the use of a particular device, machine, or system.-

Yeea Guidebooks

Yeea Handbooks

Yeec Technical manuals

Technical documentation using various forms and combinations of graphic and textual illustration and description to impart specific information on the operation and maintenance of complex systems and equipment.

Yeee User's guides Graphic and textual documents, written at a specific level of readership, with specific procedural instructions for the user of a particular device.

Yeg Newspapers / magazines

Periodical publications wherein the timeliness of information varies from daily (newspapers) to weekly, or longer (magazines).

Yei Case studies

Study aids where an actual problem, accompanied with interpretation and approach to solution, is described, illustrating a principle, problem, or situation, and allowing for a degree of generalization to similar problem situations.

Yg Visual aids

Summary or explanatory aids, usually optically projected, to facilitate information transfer in oral presentations.

Ygc Flowcharts

Graphic aids depicting logical/normal "flow" of action, function, or information, from an intput state, through a series of process steps, to an output state; can show interrelation of system functions which produce an objective.

Yge Maps

A representation of a whole, or part of, a particular geographic area, usually on a two-dimensional surface.

Ygec Terrain maps

Maps which provide terrain elevation information for specific distance steps through the use of terrain contours.

Ygg Photographs

Positive- or negative-contrast visual images processed as film transparencies (slides), or as prints, using one of various photographic processes.

Ygi Graphs

Diagrams using pictorial forms, color, shape, and size to illustrate relationships and change (e.g., histograms, or "bar charts").

Yi Microforms

Representations of information in greatly reduced size, requiring magnification and projection for viewing.

Yi Microfiche

A microform which allows a large number of pages of information to be placed on a single sheet of film stock (about 4×5 inches); requires a microfiche viewier for information retrieval.

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Yie Microphotographs

Highly reduced photographic images, which must be highly magnified for projection viewing, or to be printed.

Yk Audio-visual materials

Information transfer aids/materials which use aural and visual sense modalities simultaneously for presentation.

Ykc Films

Motion picture or still-image film in black and white or color, provided in various size, light sensitivity, and other formats.

Yke Slides

Single-frame transparencies, usually in color and in 35mm format, which require projection equipment for presentation.

Ykg Sound recordings

Recordings of voice, music, etc., usually on magnetic tape in cassette form, which allow immediate playback and synchronization with visual presentations if desired.

Yki Videotapes

An audio-visual presentation medium provided in cassette form, developed through television, which can be displayed on a television set, or on a properly adapted cathode-ray tube.

Ykk Videodiscs

A digital, laser-read, audio-visual medium with random access capability and extremely high quality resolution in visual and aural presentations.

Ykka CD-ROM

Ykka Laserdiscs

Ykkc Interactive videodiscs

Two or more videodisc systems driven by a computer system which allows discs to provide desired multi-mode information in training and simulation applications.

Ym Multimedia materials

Materials (often advertising) which employ more than one delivery medium (e.g., print, slides, film, television, direct mail).

Yo Hypermedia

Textual, pictorial, and graphical information available through a computer-based expert system; greatly facilitates construction of textual and graphic fields and various combinations thereof.

Yoc Hypertext

Computer software which allows for various forms of information management, linking, and computer authoring for such applications as technical and instructional documentation, textbooks, rapid prototyping, etc.

Yq Tutorials

Visual or aural instruction presentations packaged in a form that specifically addresses a particular knowledge, ability, or skill area.

Ys Broadcast media Media utilizing radio or television broadcasting designed to reach large numbers of viewers or listeners.

Ysc Radio advertising

Advertising through radio broadcasting.

Yse Television

An electronic communications system that transmits visual images and sound, either through space over commercial/public broadcast channels, or through a limited "closed-circuit" mode.

Yu Information exchange

(1) The exchange of any information through any of the various communications media; (2) the transmission and comprehension of information through a communications system during a large variety of use interactions.

Yuc Conferences Meetings (especially formal) of people with some type of shared expertise or area of interest, in order to address a particular agenda.

Yuca Seminars

Yuca Symposia

Yuce Workshops

Loosely structured meetings, headed by a facilitator, which allow attendees to become actively involved in the subject of the workshops, with feedback on material learned and quality of performance.

Yue Teleconferencing

A communication procedure by which individuals in various geographic locations may join in simultaneous discussion by use of a multi-link telephone setup.

Yug International information exchange

A networking system by which information developed by one nationality can be transferred and used in applications by another nationality.

Yui Interdisciplinary information exchange

A networking system by which information developed in one disciplinary area may be transferred, integrated, and used in another.

Yw Promotional materials

Materials designed specifically to persuade people to take a desired action, or to assume a desired outlook or attitude, with respect to the object or idea being promoted.

Yy Standards

Criteria established to provide assurance that a desired or required quality level is represented in a media presentation or document being produced.

Guidelines

formal or not, which, if followed, will increase the likelihood that a particularly desirable will occur.

Protocols

recedural listings or set of steps, informational notes or presentations, which document a particular transaction; sometimes used as a basic structure in developing instructional materials.

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