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DoD 5010.15.1-M
VOLUME VIII



STANDARDIZATION OF WORK MEASUREMENT

**Defense
Work
Measurement
Standard
Time
Data
Program**

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VOLUME VIII
STRUCTURAL WORK OCCUPATIONS

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DEPARTMENT OF DEFENSE
DEFENSE INDUSTRIAL RESOURCES SUPPORT OFFICE
CAMERON STATION
ALEXANDRIA, VIRGINIA 22314

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IN REPLY
REFER TO

CHANGE NO. 1
DOD 5010.15.1-M

STANDARDIZATION OF WORK MEASUREMENT
STRUCTURAL WORK OCCUPATIONS

- I. DoD 5010.15.1-M, Volume VIII, 1 Dec 75, is changed as follows:
A. Page v, Part Two, Section I, Line 1: Delete the word "three" and substitute "four."
B. Page v, Part Two, Section I: Add the following paragraph:

The Verb Index which is an alphabetical listing of the "title" line of the DWMSTDOP Operation/Element Description sequenced by the verb, page D-1.

C. Add pages D-1 thru D-13 after page C-13.

II. This change is an administrative addition of an index for the elements published in the volume.

III. This change sheet will be filed in front of the publication for reference purposes, after changes have been made.

RICHARD J. POWER
Director

DoD 5010.15.1-M
VOLUME VIII



ASSISTANT SECRETARY OF DEFENSE
WASHINGTON, D.C. 20301

INSTALLATIONS AND LOGISTICS

18 Jun 75

FOREWORD

This volume of DoD 5010.15.1-M, "Standardization of Work Measurement," is one of a series published under the authority of DoD Directive 5010.15, Defense Integrated Management Engineering System (DIMES). It provides standard time data for Structural Occupations as classified by Department of Labor codes and includes guidelines for uniform application. Some of the tasks covered in these occupations are assembly of aircraft and vehicles, sheet metal work and welding. Others are oriented to the building trades and include masonry, carpentry, plumbing, and other related occupations.

Maximum use of the guidelines and standard time data is mandatory at each Department of Defense activity where Labor Performance Standards are developed and applied.

All of the included standard time data have been reviewed and approved by a Joint Service/Agency Standard Time Data Group prior to publication.

A handwritten signature in black ink, appearing to read "John J. Bennett".

John J. Bennett
Acting Assistant Secretary of Defense
(Installations and Logistics)

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STANDARD TIME DATA
FOR
STRUCTURAL WORK OCCUPATIONS

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DEFENSE WORK MEASUREMENT STANDARD TIME
DATA PROGRAM (DWMSTDP)

STRUCTURAL WORK OCCUPATIONS

PART ONE - GUIDANCE

CHAPTER I - GENERAL INFORMATION

1.1 PURPOSE

This volume of Structural Work Occupations Standard Time Data is one of ten volumes of standard time data in the 11 volume series included in DWMSTDP. Structural Work Occupations as categorized by the Department of Labor includes those occupations concerned with fabricating, erecting, installing, paving, painting, repairing, and similarly working structures or structural parts, such as bridges, buildings, roads, motor vehicles, cables, airplane engines, girders, plates, and frames. The work generally occurs outside a factory or shop environment, except for factory production line occupations. Tools used are hand or portable power tools, and such materials as wood, metal, concrete, glass, and clay are involved. This volume provides a single DoD source for Standard Time Data which can be used in the development of labor standards for:

- 1.1.1 Organizations, activities, or functional areas whose primary missions correlate to structural work occupations, e.g., sheet metal work, welding, electrical assembling and installing, painting, cementing and carpentry.
- 1.1.2 For structural work operations within organizations, activities, or functional areas engaged in other than structural work occupations, e.g., a carpenter constructing a wood frame (aircraft cribbing) in a maintenance activity.
- 1.1.3 Work performed by personnel whose primary jobs are other than structural, but who may actually do that type work as a part of their jobs, e.g., an aircraft mechanic fabricating and installing aircraft cribbing in a maintenance activity.

1.2 SCOPE

This publication applies to all military services and defense agencies. The data contained herein will be used to the maximum extent practicable in the development of labor performance standards in compliance with DoD Directive 5010.15.

1.3 APPLICATION

The Structural Work Occupations Standard Time Data contained in this volume must be applied in accordance with the general information contained in the Basic Volume and the specific instructions contained in this volume.

1.4 SUBMISSION OF NEW DWMSTDP ELEMENTS

All newly developed or existing Structural Work Occupations Standard Time Data not included herein will be submitted with back-up motion pattern analysis to the Defense Industrial and Management Engineering Office (DIMEO) for review and possible inclusion

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in the updating changes to this volume. The Basic Volume contains procedures for submitting this input.

CHAPTER II - CODING

2.1 GENERAL

2.1.1 Information requirements applicable to DWMSTDP have been standardized. Applicable DoD Standard Data Elements have been utilized and all other data elements have been proposed for data representation standardization action in accordance with the provisions of DoD Instruction 5000.12, "Data Elements and Codes Standardization Procedures" and DoD 5000.12-M.

2.1.2 The complete coding structure for a Defense Work Measurement Standard Time Data element is explained in the Basic Volume. Figure 1 highlights a typical Occupation Code, Work Category Code, and Work Sub-Category Code for Structural Work data.

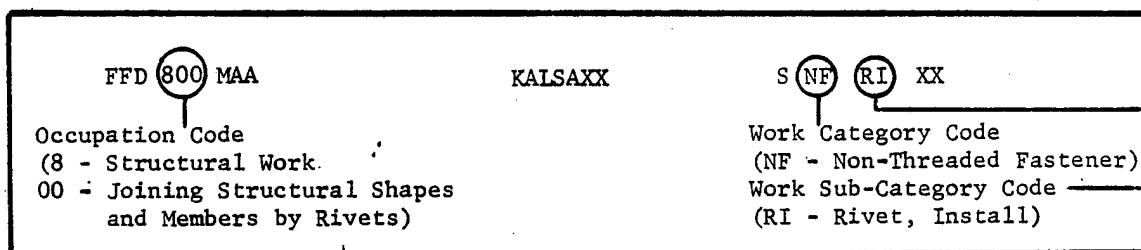


Figure 1 - DWMSTDP Coding Structure

2.2 TYPES OF CODES

2.2.1 Occupation Codes

The Occupation Codes for DWMSTDP elements in this volume conform to the numeric codes of Structural Work Occupations listed in the U.S. Department of Labor Dictionary of Occupational Titles. All Department of Labor Structural Work Occupations are shown in Figure 2. Figure 3 identifies the work ascribed to the specific occupations contained in this volume. There are occasions when a standard time data element may have common application to two or more Divisions of the total 8 Structural Work Occupational Category. If this is the case, an X is used in the Occupation Division position (second numeric) and the Group position (third numeric), e.g., 8XX. If the common application occurs only within the Occupation Division, an X is used in the Group position only (third numeric), e.g., 80X, 82X.

2.2.2 Work Category Code

The two position Work Category Code encircled in Figure 1 further identifies the various types of work performed within the occupation groups. This classification category indicates the major action being performed or major equipment involved in the DWMSTDP element. Figure 4 lists and defines the work categories used in coding Structural Work Occupations standard time data.

2.2.3 Work Sub-Category Code

The two position Work Sub-Category Code encircled in Figure 1 is a sub-division of the Work Category Code and identifies the object, process, or condition associated with the action or equipment. This code is generally oriented to a noun-verb relationship, e.g., "RI" is the code for "Rivet, Install" in the element description header line. However, if the noun-verb sequence in the element code causes a duplication of the code, the sequence has been modified. The noun-verb sequence will remain in the verbage of the element title whenever possible.

2.3 FUNDAMENTAL STANDARD TIME DATA

Every occupation includes general purpose data such as get, place, read or write which are fundamental to each occupation but not specific to any one. These are called "Universal" and are contained in Volume X - Universal Standard Time Data.

8 - STRUCTURAL WORK OCCUPATIONS

(STRUCTURAL WORK)

80 Occupations in Metal Fabricating, N.E.C.
(Metal Fabricating, N.E.C.)

- 800. Riveters
(Riveting)
- 801. Fitting, bolting, screwing, and related occupations
(Fitting, bolting, screwing, and related work)
- 804. Tinsmiths, coppersmiths, and sheet metal workers
(Sheet metal work)
- 805. Boilermakers
(Boilermaking and related work)
- 806. Transportation equipment assemblers and related occupations
(Transportation equipment assembling and related work)
- 807. Bodymen, transportation equipment
(Body work, transportation equipment)
- 809. Miscellaneous occupations in metal fabricating, n.e.c.
(Miscellaneous metal fabricating, n.e.c.)

81 Welders, Flame Cutters, and Related Occupations
(Welding, Flame Cutting, and Related Work)

- 810. Arc welders
(Arc welding)
- 811. Gas welders
(Gas welding)
- 812. Combination arc welders and gas welders
(Combination arc and gas welding)
- 813. Resistance welders
(Resistance welding)
- 814. Brazing, braze-welding, and soldering occupations
(Brazing, braze-welding, and soldering)
- 815. Lead burning occupations
(Lead burning)
- 816. Flame cutters and arc cutters
(Flame and arc cutting)
- 819. Welders, flame cutters, and related occupations, n.e.c.
(Welding, flame cutting, and related work, n.e.c.)

82 Electrical Assembling, Installing, and Repairing Occupations
(Electrical Assembling, Installing, and Repairing)

- 820. Occupations in assembly, installation and repair of generators, motors, accessories, and related powerplant equipment
(Generator, motor, and related powerplant equipment assembly, installation, and repair)

n.e.c. - not elsewhere classified

Figure 2 - Structural Work Occupations Codes

- 821. Occupations in assembly, installation, and repair of transmission and distribution lines and circuits
(Transmission and distribution line and circuit assembly, installation and repair)
 - 822. Occupations in assembly, installation, and repair of wire communication, detection, and signaling equipment
(Wire communication, detection, and signaling equipment assembly, installation, and repair)
 - 823. Occupations in assembly, installation, and repair of electronic communication, detection and signaling equipment
(Electronic communication, detection, and signaling equipment assembly, installation, and repair)
 - 824. Occupations in assembly, installation, and repair of lighting equipment and building wiring, n.e.c.
(Lighting equipment and building wiring assembly, installation, and repair, n.e.c.)
 - 825. Occupations in assembly, installation and repair of transportation and materials handling equipment, n.e.c.
(Transportation and materials handling equipment assembly, installation, and repair n.e.c.)
 - 826. Occupations in assembly, installation, and repair of industrial apparatus, n.e.c.
(Industrial apparatus assembly, installation, and repair, n.e.c.)
 - 827. Occupations in assembly, installation, and repair of large household appliances and similar commercial and industrial equipment
(Large household appliance and similar commercial and industrial equipment assembly, installation and repair)
 - 828. Occupations in fabrication, installation, and repair of electrical and electronic products, n.e.c.
(Electrical and electronic product fabrication, installation, and repair, n.e.c.)
 - 829. Occupations in assembly, installation, and repair of electrical products, n.e.c.
(Assembly, installation, and repair of electrical products, n.e.c.)
- 84 Painting, Plastering, Waterproofing, Cementing, and Related Occupations
(Painting, Plastering, Waterproofing, Cementing, and Related Work)
- 840. Construction and maintenance painters and related occupations
(Construction and maintenance painting and related work)
 - 841. Paperhangers
(Paperhanging)
 - 842. Plasterers and related occupations
(Plastering and related work)
 - 843. Waterproofing and related occupations
(Waterproofing and related work)
 - 844. Cement and concrete finishing and related occupations
(Cement and concrete finishing and related work)
 - 845. Transportation equipment painters and related occupations
(Transportation equipment painting and related work)
 - 849. Painting, plastering, waterproofing, cementing, and related occupations, n.e.c.
(Painting, plastering, waterproofing, cementing, and related work, n.e.c.)
- n.e.c. - not elsewhere classified

Figure 2 - Structural Work Occupations Codes (Continued)

85 Excavating, Grading, Paving, and Related Occupations
(Excavating, Grading, Paving, and Related Work)

- 850. Excavating, grading, and related occupations
(Excavating, grading, and related work)
- 851. Drainage and related occupations
(Drainage and related work)
- 852. Concrete paving occupations
(Concrete paving)
- 853. Asphalt paving occupations
(Asphalt paving)
- 859. Excavating, grading, paving, and related occupations, n.e.c.
(Excavating, grading paving, and related work, n.e.c.)

86 Construction Occupations, N.E.C.
(Construction Work, N.E.C.)

- 860. Carpenters and related occupations
(Carpentry and related work)
- 861. Brick and stone masons and tile setters
(Brick and stone masonry and tile setting)
- 862. Plumbers, gas fitters, steam fitters, and related occupations
(Plumbing, gas fitting, steam fitting, and related work)
- 863. Asbestos and insulation workers
(Asbestos and insulation work)
- 864. Floor laying and finishing occupations
(Floor laying and finishing work)
- 865. Glaziers and related occupations
(Glass setting and related work)
- 866. Roofers and related occupations
(Roofing and related work)
- 869. Miscellaneous construction occupations, n.e.c.
(Miscellaneous construction work, n.e.c.)

89 Structural Work Occupations, N.E.C.
(Structural Work, N.E.C.)

- 891. Occupations in structural maintenance, n.e.c.
(Structural maintenance, n.e.c.)
- 892. Hoisting and conveying occupation, n.e.c.
(Hoisting and conveying, n.e.c.)
- 899. Miscellaneous structural work occupations, n.e.c.
(Miscellaneous structural work, n.e.c.)

n.e.c. - not elsewhere classified

Figure 2 - Structural Work Occupations Codes (Continued)

DWMSTDP STRUCTURAL WORK OCCUPATIONS CODES

<u>Code</u>	<u>Occupation</u>	<u>Work Description</u>
800	Riveters (Riveting).	Joining structural shapes and members by rivets.
804	Tinsmiths, coppersmiths, and sheet metal workers (Sheet metal work).	Laying out, cutting to size, bending or shaping, and soldering, brazing, riveting, or crimping sheet metal, such as copper, steel, aluminum, galvanized iron, and tinplate, to fabricate or repair sheet metal items, such as gutters, hot and cold air vents, cabinets, and light tanks.
807	Bodymen, transportation equipment (Body work, transportation equipment).	Repairing body members, parts, components, and attachments for such transportation equipment as automobiles, aircraft, rail equipment, motorcycles, boats, and military tanks.
809	Miscellaneous occupations in metal fabricating, n.e.c. (Miscellaneous metal fabricating, n.e.c.).	Fabricating structures from metal and related materials, not elsewhere classified.
810	Arc welders (Arc welding).	Welding, using electric welding equipment which achieves welding temperature and jointure by passing electric current across an air gap between the workpiece and a manually or mechanically guided electrode.
811	Gas welders (Gas welding).	Welding, using gas-welding equipment.
813	Resistance welders (Resistance welding).	Welding with welding equipment that passes an electric current through workpiece to achieve welding temperature and jointure without filler material.
814	Brazing, braze-welding, and soldering occupations (Brazing, braze-welding and soldering).	Brazing, braze-welding, or soldering, using electric or gas-fired ovens and equipment.
816	Flame cutters and arc cutters (Flame and arc cutting).	Severing or trimming materials, using gas flame or electric-arc cutting equipment.
n.e.c. - not elsewhere classified		

Figure 3 - Work Description of DWMSTDP Structural Work Occupations Codes

DWMSTDP STRUCTURAL WORK OCCUPATION CODES

<u>Code</u>	<u>Occupation</u>	<u>Work Description</u>
821	Occupations in assembly, installation, and repair of transmission and distribution lines and circuits (Transmission and distribution line and circuit assembly, installation and repair).	Erecting and repairing powerlines and circuits for transmission and distribution of electricity, and assembling and erecting related equipment and structures.
823	Occupations in assembly, installation, and repair of electronic communication, detection and signaling equipment (Electronic communication, detection, and signaling equipment assembly, installation, and repair).	Assembling equipment components; connecting and testing circuitry; installing equipment to provide electronic communication, detection, signaling, recording, analyzing, and computing services; and making on-site repairs in buildings, ships, trains, and aircraft.
824	Occupations in assembly, installation, and repair of lighting equipment and building wiring, n.e.c. (Lighting equipment and building wiring assembly, installation, and repair, n.e.c.).	Wiring buildings and adjacent yards to provide electricity for power and lighting; assembling and installing lighting equipment, conduit switches, junction and fuse boxes, and related accessories and controls; and repairing wiring and components, not elsewhere classified.
825	Occupations in assembly, installation and repair of transportation and materials handling equipment, n.e.c (Transportation and materials handling equipment assembly, installation, and repair n.e.c.).	Wiring and repairing electrical power units and controls for transportation and material-handling equipment, and adjusting or repairing electrical components and circuits, not elsewhere classified.
829	Occupations in assembly, installation, and repair of electrical products, n.e.c. (Assembly, installation, and repair of electrical products, n.e.c.).	Assembly, installing, erecting, and repairing electrical equipment and related structures not elsewhere classified.
844	Cement and concrete finishing and related occupations (Cement and concrete finishing and related work).	Covering, leveling, and smoothing cement and concrete surfaces.

n.e.c. - not elsewhere classified

Figure 3 - Work Description of DWMSTDP Structural Work Occupations Codes (Continued)

<u>DWMSTDP STRUCTURAL WORK OCCUPATION CODES</u>		
<u>Code</u>	<u>Occupation</u>	<u>Work Description</u>
845	Transportation equipment, painters and related occupations (Transportation equipment painting and related work).	Applying paint, asphalt undercoatings and related materials to transportation equipment including automobiles, trucks, trailers, aircraft and railway cars.
853	Asphalt paving occupations (Asphalt paving).	Combining asphaltic ingredients at mobile batching plants; applying asphalt to roadbeds and other sub-structures; and shaping and finishing asphalt; involves operating or tending machines for mixing, spreading, compacting, and leveling paving materials, and using rakes, shovels, and other devices.
860	Carpenters and related occupations (Carpentry and related work).	Preparing and installing wooden structures and structural members, using band saws, ripsaws, planers, braces, hammers, and other carpentry tools and woodworking machines.
861	Brick and stone masons and tile setters (Brick and stone masonry and tile setting).	Preparing and laying brick, concrete block, tile, marble, and related materials, using chisels, hammers, trowels, and other handtools and implements.
862	Plumbers, gas fitters, steam fitters, and related occupations (Plumbing, gas fitting, steam fitting, and related work).	Assembling and installing gas, steam, plumbing, and related fixtures, pipes, and fittings in structures, using pipe-cutting and pipe-threading tools, welding equipment, and other pipe-fitting tools and equipment.
863	Asbestos and insulation workers (Asbestos and insulation work).	Covering and lining structures with asbestos, cork, canvas, tar paper, magnesia, and related materials, using saws, knives, rasps, trowels, and other tools and implements.
864	Floor laying and finishing occupations (Floor laying and finishing work).	Installing inlaid, hardwood, or composition floors, and laying asphalt, cork, linoleum, and rubber blocks or sheet materials, using rollers, knives, trowels, sanding machines, and other devices.
n.e.c. - not elsewhere classified		

Figure 3 - Work Description of DWMSTDP Structural Work Occupations Codes (Continued)

<u>DWMSTDP STRUCTURAL WORK OCCUPATIONS CODES</u>		
<u>Code</u>	<u>Occupation</u>	<u>Work Description</u>
865	Glaziers and related occupations (Glass setting and related work).	Preparing and setting glass in structures, using bolts, screws, putty, grinding and buffering wheels, glass-cutting tools, and other materials and devices
866	Roofers and related occupations (Roofing and related work).	Covering roofs and exterior walls of structures with slate, asphalt, aluminum, wood, and related materials, using brushes, knives, punches, hammers, and other tools.
n.e.c. - not elsewhere classified		

Figure 3 - Work Description of DWMSTDP Structural Work Occupations Codes (Continued)

STRUCTURAL WORK OCCUPATIONS WORK CATEGORY CODES

<u>Work Category</u>	<u>Code</u>	<u>Definition</u>
Actuate	AC	Manual manipulation of an object for engaging, disengaging, starting or stopping a device, (Examples: crank, dial, set with knob, move lever.) The process of manipulating an object by cranking, turning, or moving through a fixed part.
		Putting something else in action by handling a switch or control.
Body Motion	BM	Gross foot, leg, and body movement (other than basic manual and eye motions). (Examples: leg motion, horizontal change, sit and stand, vertical change, walk.)
Clean	CL	The removal of foreign matter by chemical, mechanical, or manual process. (Examples: ultrasonic cleaning, abrasive cleaning, use of solvent, rubbing, wiping, sweeping.)
Clamp	CP	The action required to accomplish the nonmanual holding of object(s) with a clamp when required for repairing, modifying, manufacturing or assembly operations. (Examples: "C", cleco, spring, hose, cable, conduit clamps, etc.)
Disassembly/Assembly	DA	The action(s) required to remove, install or replace assemblies or components parts when the primary purpose is to place an object(s) or part(s) on or into another object or part so that they fit, connect or are secured to each other to form a unit. These actions do not include fabrication of parts or items. This category generally applies to special or higher level data.
Equipment - Metalworking	EM	The operation or preparation for operation of any powered <u>stationary-mounted</u> metal working machine or equipment used for the act or process of making or changing an object of metal. (Examples: metal lathe, milling machine, powered hacksaw)

Figure 4 - Major Categories of Work Used in Coding Structural Work Occupations Data

STRUCTURAL WORK OCCUPATIONS WORK CATEGORY CODES

<u>Work Category</u>	<u>Code</u>	<u>Definition</u>
Fabricate	FA	The actions required to manufacture, form or produce an item from raw or new material by shaping, cutting or forming by hand or mechanical means. This category generally applies to special or higher level data.
Gauge and Measure	GM	The procedure by which the size amount extent, or capacity of an item is determined. (Examples: bisect, gauge, mike, square, weigh)
Inspect and Test	IT	The procedure or action by which an item is subjected to comparisons or measurements to determine its qualities for use. (Examples: use of bore indicating gauge, use of micrometers, use of feeler gauge, eye times, check mandrel for run-out)
Job Preparation	JP	The actions required to prepare an object(s), work place, or employee, or any combination of the three for ensuing work. NOTE: Excluded from this category are layout, packaging and machine setup.
Layout	LO	Laying out straight lines or radii including drawings or scribing on any appropriate material. (Examples: measuring with scale or tape to locate points by intersecting lines, chalk-line layout, surface preparation using layout dye.)
Material Handling Devices	MH	The process of locating, relocating, positioning, and aligning mechanical devices such as conveyors, pallet jacks, hoists, carts, slings, etc., for the purpose of moving objects or moving the devices out of the way.
Non-threaded Fastener	NF	The permanent or semipermanent holding or locking of mating objects by other than threads or clamping actions.

Figure 4 - Major Categories of Work Used in Coding Structural Work Occupations Data
(Continued)

STRUCTURAL WORK OCCUPATIONS WORK CATEGORY CODES		
<u>Work Category</u>	<u>Code</u>	<u>Definition</u>
Object Handling	OH	The process of manually moving an object for the purpose of changing its location, position, or alignment. The movement path may or may not be fixed. The primary purpose of this handling is not to activate another object or device.
Paint	PA	To cover a surface by applying and spreading liquid or paste with a brush, spray gun, or roller. (Examples: paint, varnish lacquer, shellac, wax.)
Process Time	PT	The interval of time made up of a combination of manual and machine time components, so integrated that it would be impossible or impractical to separate and analyze them with Methods Time Measurement. Process time may be obtained by stopwatch, manufacturers' specs or formulae.
Surface Repair	SR	The process by which the surface of an object is changed or modified to restore the object to a serviceable condition. This category does not include removal or installation of the object to be repaired. This category generally applies to special or higher level data.
Setup	SU	The initial preparation of machinery and/or powered equipment necessary to perform work on an object and/or the subsequent "Tear Down."
Threaded Fastener	TF	Tightening or loosening a threaded object--bolt, nut, screw, or hand-knob by hand. (Examples: fingerturn--per thread, spin, tighten or loosen--moderate pressure.)
Tool Use Hand Operation - Non-powered	TL	The use or preparation for use of any non-powered implement, instrument or utensil held in the hand and used for cutting, hitting, digging, rubbing, etc. (Examples: knife, saw, hammer, shovel, rake, prybar, needle for sewing.)

Figure 4 - Major Categories of Work Used in Coding Structural Work Occupations Data
(Continued)

STRUCTURAL WORK OCCUPATIONS WORK CATEGORY CODES

<u>Work Category</u>	<u>Code</u>	<u>Definition</u>
Tool, Powered - Hand-held	TP	The use or preparation for use of any hand-held tool which derives its primary power for operation from a source other than the operator or user. (Examples: electric portable saw, portable pneumatic wrench.)
Vising	VS	The action required to accomplish the nonmanual holding of object(s) with a vise while repairs, modifications, or manufacturing operations are being performed. (Examples: tighten or loosen vise, rotate vise, quick acting vise.)
Wire Handling	WH	Elements of work associated with the build up, installation, or repair of circuitry such as electrical, electronic, or telephonic.

Figure 4 - Major Categories of Work Used in Coding Structural Work Occupations Data
(Continued)

DEFENSE WORK MEASUREMENT STANDARD TIME
DATA PROGRAM (DWMSTDP)

STRUCTURAL WORK OCCUPATIONS

PART TWO - STANDARD TIME DATA

SECTION I - INDEXES

This provides four indexes as follows:

The Occupation Code Index which includes the page location for each Code in both the DWMSTDP Element Index and the DWMSTDP Element Listing, Pages A-1 through A-3.

The DWMSTDP Element Index which is sequenced according to the DWMSTDP Element Code, pages B-1 through B-14.

The Noun/Verb Index which is an alphabetical listing of the "title" line of the DWMSTDP operation/element description, pages C-1 through C-13.

The Verb Index which is an alphabetical listing of the "title" line of the DWMSTDP Operation/Element Description sequenced by the verb, page D-1.

OCCUPATION CODE INDEX

<u>Code</u>	<u>Occupation</u>	<u>DWMSTDP Element Index</u>	<u>Page</u>	<u>DWMSTDP Element Listing</u>
8XX	Structural Work, Common	B-1		1
80X	Metal Fabricating, Common	B-1		2
800	Riveters (Riveting).	B-1		7
804	Tinsmiths, coppersmiths, and sheet metal workers (Sheet metal work).	B-2		12
807	Bodymen, transportation equipment, (Body work, transportation equipment).	B-2		13
809	Miscellaneous occupations in metal fabricating, n.e.c. (Miscellaneous metal fabricating, n.e.c.).	B-5		32
81X	Welders, Flame Cutters, and Related Occupations (Welding, Flame Cutting, and Related Work).	B-5		33
810	Arc welders (Arc welding).	B-6		39
811	Gas welders (Gas welding).	B-7		40
813	Resistance welders (Resistance welding).	B-7		41
814	Brazing, braze-welding, and soldering occupations (Brazing braze welding and soldering).	B-7		41
816	Flame cutters and arc cutters (Flame and arc cutting).	B-7		41
82X	Electrical Assembling, Installing, and Repairing Occupations (Electrical Assembling, Installing, and Repairing), Common	B-7		43

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OCCUPATION CODE INDEX

<u>Code</u>	<u>Occupation</u>	<u>DWMSTDP Element Index</u>	<u>Page</u>	<u>DWMSTDP Element Listing</u>
821	Occupations in assembly, installation, and repair of transmission and distribution lines and circuits (Transmission and distribution line and circuit assembly, installation and repair).	B-8		48
823	Occupations in assembly, installation, and repair of electronic communication, detection and signaling equipment (Electronic communication, detection, and signaling equipment assembly, installation, and repair).	B-9		51
824	Occupations in assembly, installation, and repair of lighting equipment and building wiring, n.e.c. (Lighting equipment and building wiring assembly, installation, and repair, n.e.c.).	B-9		51
825	Occupations in assembly, installation and repair of transportation and materials handling equipment, n.e.c. (Transportation and materials handling equipment assembly, installation, and repair n.e.c.).	B-9		52
829	Occupations in assembly, installation, and repair of electrical products, n.e.c. (Assembly, installation, and repair of electrical products, n.e.c.).	B-9		53
844	Cement and concrete finishing and related occupations (Cement and concrete finishing and related work).	B-9		54

OCCUPATION CODE INDEX

<u>Code</u>	<u>Occupation</u>	<u>DWMSTDP Element Index</u>	<u>Page</u>	<u>DWMSTDP Element Listing</u>
845	Transportation equipment, painters and related occupations (Transportation equipment painting and related work).	B-9		55
853	Asphalt paving occupations (Asphalt paving).	B-10		55
86X	Construction Occupations (Construction Work), Common	B-10		56
860	Carpenters and related occupations (Carpentry and related work).	B-10		59
861	Brick and stone masons and tile setters (Brick and stone masonry and tile setting).	B-11		62
862	Plumbers, gas fitters, steam fitters, and related occupations (Plumbing, gas fitting, steam fitting, and related work).	B-12		64
863	Asbestos and insulation workers (Asbestos and insulation work).	B-13		69
864	Floor laying and finishing occupations (Floor laying and finishing work).	B-13		70
865	Glaziers and related occupations (Glass setting and related work).	B-13		70
866	Roofers and related occupations (Roofing and related work).	B-13		71

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OCCUP- ATION	QUALITY	DWMS TOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
8XX	MAO	MCPCLXX	VARIABLE	CLAMP(BAR), INSTALL AND REMOVE	1
8XX	MAF	MGMRL01	317	RULE, USE TO MEASURE	
9XX	MAF	MJPOC01	211	DIE, CHANGE IN STOCK, HAND THREADING DIE	
8XX	MAF	MJPGT01	130	GAS, TURN ON, LIGHT, AND TURN OFF, GAS BURNER FOR HEATING SOLDERING IRON OR SIMILAR	
8XX	MAA	SJPDT01	802	DIE, INSTALL IN AND REMOVE FROM DIE STOCK, TWO SETSCREWS SECURING	
8XX	MAF	SJPPP01	363	POUCH(TOOL), PUT AROUND WAIST WITH STRAP AND REMOVE	
9XX	MAW	MLOLMXX	VARIABLE	LINE, MARK WITH CHALK LINE	
8XX	MAA	TLOLIXX	TABLE	LINE, INSCRIBE, CIRCULAR, USING FINGER AS A GUIDE	2
8XX	MAF	MOHLM01	347	LADDER(EXTENSION), MOVE, WEIGHT TO 60 POUNDS	
8XX	MAF	MOHLM02	440	LADDER(EXTENSION), MOVE, LADDER 20 FEET LONG	
8XX	MAA	MTLHPXX	VARIABLE	HOLE, PUNCH WITH PORTABLE PUNCH	
8XX	MAF	MTLRR01	54	RATCHET, REVERSE ON THREADING TOOL	
3XX	MAF	STPCC01	243	CHISEL, CHANGE IN PNEUMATIC HAND CHIPPER	
80X	MAA	MGMHG01	178	HOLE, GAUGE TO DETERMINE RIVET LENGTH	
80X	MAA	SJPTS01	1638	TOOL(AIRLOC), SET UP FOR INSTALLATION OR REMOVAL OF PIN IN AIRLOC STUD	3
80X	MAA	SJPTS02	353	TOOL(PNEUMATIC SQUEEZE), SET UP AND ASIDE, FOR INSTALLATION OF PIN IN AIRLOC STUD	
80X	MAA	MNFFLXX	VARIABLE	FASTENER(CAMLOC), LOOSEN	
80X	MAA	MNFFTXX	VARIABLE	FASTENER(CAMLOC), TIGHTEN	
80X	MBA	SNFFIXX	VARIABLE	FASTENER(HIGH STRENGTH), INSTALL	4
80X	MBA	SNFFRXX	VARIABLE	FASTENERS(HIGH STRENGTH), REPLACE	
80X	MAA	SNFFSXX	VARIABLE	FASTENER(TURNLOCK), SEAT AND TIGHTEN	
80X	MAA	SNFFUXX	VARIABLE	FASTENER(TURNLOCK), UNLOCK	
80X	MAA	SNFLIXX	VARIABLE	LOCK(WEDGE), INSTALL	
80X	MBA	SNFLR01	231	LOCK(WEDGE), REMOVE WITH PNEUMATIC TOOL	5
80X	MAA	MTLFUXX	VARIABLE	FENDER(HOLE), USE, LEAF TYPE	
80X	MAA	MTLHRXX	VARIABLE	HOLE, REAM WITH HAND REAMER	
8CX	MUA	STLACXX	VARIABLE	ALUMINUM, CUT WITH COMPOUND LEVER SNIPS, PER LINEAR INCH	
80X	MAA	STLLRXX	VARIABLE	LAMINATION, REMOVE ONE LAYER FROM SHIMSTOCK, TO TWO INCHES WIDE AND SIX INCHES LONG	
80X	MAF	STLMCXX	VARIABLE	METAL, CUT WITH SNIPS, PER INCH, SHEET METAL	6
300	MAA	TEMHOXX	TABLE	HOLE, DIMPLE(COLD AND HOT)	
800	MAA	SITRI01	226	RIVET, INSPECT WITH LIGHT	
800	MAA	SITRI02	370	RIVET, INSPECT WITH LIGHT AND MIRROR	
300	MAA	SJPGS01	424	GUN(RIVET), SET UP, INITIAL	7

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OCCUP- ATION	QUALITY	DMWSTOP ELEMENT	TNU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
800	MAA	SJPGS02	173	GUN(RIVET),SET UP,CHANGE RIVET SET	7
900	MAA	SNFCRXX	VARIABLE	RIVET,CUT PROTRUDING HEAD WITH RIVET GUN AND CHISEL	9
800	MAA	SNFDRXX	VARIABLE	RIVET,DRIVE OUT WITH HAMMER AND PIN PUNCH,2-MAN OPERATION	
800	MUA	SNFFRXX	VARIABLE	FASTENER(BLIND),REMOVE,DEUTSCH DRIVE PIN RIVET	
800	MAA	SNFIRXX	VARIABLE	RIVET(DEUTSCH DRIVE PIN),INSTALL,ALL SIZES	
800	MAA	SNFROXX	VARIABLE	RIVET,DRILL AND REMOVE,COUNTERSUNK OR UNIVERSAL HEAD	9
800	MAA	SNFRIXX	VARIABLE	RIVET,INSTALL	
800	MAA	SNFR107	693	RIVET,INSTALL,COLLARED FASTENER,3/16-1/4 INCH DIAMETER,FIRST RIVET	
800	MAA	SNFRIC8	335	RIVET,INSTALL,COLLARED FASTENER 3/16-1/4 INCH DIAMETER,ADDITIONAL RIVET	
800	MAA	SNFRIC9	703	RIVET(HI-SHEAR),INSTALL,FIRST	10
800	MAA	SNFR110	466	RIVET(HI-SHEAR),INSTALL,ADDITIONAL	
800	MAA	SNFR111	525	RIVET,INSTALL,BLIND,PULLED,ALL TYPES,FIRST RIVET	
800	MAA	SNFR112	445	RIVET,INSTALL,BLIND,PULLED,ALL TYPES,EACH ADDITIONAL RIVET	
800	MAA	SNFRKXX	VARIABLE	RIVET,KNOCK OUT,COLLARED FASTENER,ALUMINUM	
900	MUA	SNFFRXX	VARIABLE	RIVET,REMOVE,SOLID,DRIVEN	11
900	TAA	BPTMHXX	VARIABLE	METAL,HEAT WITH DIMPLING DIE	
800	TAA	BPTRS01	257	RIVET,SET WITH PNEUMATIC GUN,PROCESS TIME ONLY	
800	MAA	SSUDS01	3359	DIMPLE MACHINE,SET UP(COLD)	
800	MAA	SSUGA01	1121	GAP(DIE),ADJUST(DIMPING MACHINE-COLD)	12
800	MAA	SSUMS01	4624	MACHINE(HOT DIMPLE),SET UP	
800	MAA	STLDFFXX	VARIABLE	DIMPLE(COLD),FORM WITH HAND DIMPLER	
904	MAF	MJHPPXX	VARIABLE	PIECES,POSITION TO ASSEMBLE PITTSBURGH LICK SEAM	
807	MUA	SFACHXX	VARIABLE	HOLE,CUT IN ALUMINUM TO .064 INCH THICKNESS, RECTANGULAR ACCESS HOLE	13
807	MUA	SFADFXX	VARIABLE	DOUBLER(OR FILLER),FABRICATE,FLAT CIRCULAR	
807	MJA	SFAFFXX	VARIABLE	FILLER(OR DOUBLER),FABRICATE,FLAT RECTANGULAR, TO .064 INCH THICK	14
907	MUA	SFAHCXX	VARIABLE	HOLE,CUT IN ALUMINUM TO .064 INCH THICKNESS, CIRCULAR ACCESS HOLE	
807	MAA	XJPTP01	922	TOOLS,PREPARE FOR JO-BOLT INSTALLATION	15
807	MAA	SJPCI01	1330	CARTRIDGE(SEALANT),INSTALL IN AND REMOVE FROM GUN	
807	MAA	MNFGRXX	VARIABLE	GRIMMET(AND STUD),REMOVE,OZUS FASTENER,MANUAL MOTIONS ONLY	
907	MUA	SNFCCXX	VARIABLE	COLLAR,CUT FROM DRAW TYPE SHEAR PIN	16

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OCCUP- ATION	QUALITY	DWMSSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
807	MAA	SNFFI01	497	FASTENER(ANCHORED), INSTALL MISSING FLOATING OR CHANNEL NUT ONLY, ALL TYPES, FIRST PIECE	16
807	MAA	SNFFI02	454	FASTENER(ANCHORED), INSTALL MISSING FLOATING OR CHANNEL NUT ONLY, ALL TYPES, ADDITIONAL PIECE	
807	MUA	SNFFI03	3610	FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE, OR DZUS SPRING, 1-MAN OPERATION, FIRST PIECE	17
807	MUA	SNFFI04	1840	FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE, OR DZUS SPRING, 1-MAN OPERATION, ADDITIONAL PIECE	
807	MUA	SNFFI05	5770	FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE, OR DZUS SPRING, 2-MAN OPERATION, FIRST PIECE	
807	MUA	SNFFI06	3250	FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING, 2-MAN OPERATION, ADDITIONAL	18
807	MUA	SNFFI07	18850	FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY WITH BLIND RIVETS, FIRST OR SINGLE THREE-NUT LENGTH	
807	MUA	SNFFI08	4530	FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY WITH BLIND RIVETS, EACH ADDITIONAL THREE-NUT LENGTH	
807	MUA	SNFFI09	14970	FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS, FIRST OR SINGLE THREE-NUT LENGTH	
807	MUA	SNFFI10	2880	FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS, EACH ADDITIONAL THREE-NUT LENGTH	
807	MUA	SNFFI11	5390	FASTENER(ANCHORED), INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, FIRST PIECE	19
807	MUA	SNFFI12	3180	FASTENER(ANCHORED), INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, ADDITIONAL	
807	MUA	SNFPX _X	VARIABLE	FASTENER(ANCHORED), PREPARE HOLE AND INSTALL	20
807	MUA	SNFRX _X	VARIABLE	FASTENER(ANCHORED), REPLACE	21
807	MBA	SNFGIX _X	VARIABLE	GROMMET(CAMLOC), INSTALL WITH SNAP RING	
807	MAA	SNFGRX _X	VARIABLE	GROMMET(CAMLOC), REMOVE, SECURED WITH SNAP RING	
807	MAA	SNFIGX _X	VARIABLE	GROMMET(AND STUD), INSTALL, DZUS FASTENER, USING PNEUMATIC FLOOR DIMPLER	22
807	MAA	SNFINX _X	VARIABLE	NUT(CHANNEL), INSTALL	
807	MBA	SNFISX _X	VARIABLE	STUD(AIRLOC), INSTALL, PER STUD	
807	MAA	SNFNIX _X	VARIABLE	NUT(ANCHOR), INSTALL IN EXISTING HOLES, EASY ACCESS	
807	MAA	SNFNI03	4502	NUT(ANCHOR), INSTALL, DRILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE, FIRST NUT, EASY ACCESS	23
807	MAA	SNFNI04	2863	NUT(ANCHOR), INSTALL, EASY ACCESS, DRILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE, EACH ADDITIONAL NUT	
807	MBA	SNFNI05	4039	NUT(ANCHOR), INSTALL WITH TWO RIVETS, FIRST NUT (USE DRILL JIG TO LOCATE ATTACH HOLES)	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OCCUP- ATION	QUALITY	DM4STOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
807	MBA	SNFNI06	1448	NUT(ANCHOR), INSTALL WITH TWO RIVETS, ADDITIONAL NUT(USE DRILL JIG TO LOCATE ATTACH HOLES)	23
807	MUA	SNFPI01	458	PIN(DRAW TYPE SHEAR), INSTALL	24
807	MAA	SNFRFXX	VARIABLE	FASTENER(ANCHORED), REMOVE WORN OR STRIPPED FLOATING OR CHANNEL NUT ONLY	
807	MAA	SNFRSXX	VARIABLE	STUD(AIRLOC), REMOVE PIN WITH AIRLOC TOOL	
807	MAA	SNFSIXX	VARIABLE	STUD(CAMLOC), INSTALL WITH CAMLOC PLIERS, NO RETAINING WASHER	
807	MAA	SNFSI03	318	STUD(STRESS HEAD CAMLOC), INSTALL, PER STUD	
807	MAA	SNFSRXX	VARIABLE	STUD(CAMLOC), REMOVE, NO RETAINING WASHER	
807	MAA	SNFWI01	326	WASHER(SPLIT), INSTALL ON CAMLOC STUD ASSEMBLY	
807	MAA	SNFWI02	274	WASHER(SOLID), INSTALL ON CAMLOC STUD ASSEMBLY	25
807	MAA	SNFWR01	140	WASHER(SPLIT), REMOVE FROM CAMLOC STUD, PER WASHER	
807	TAA	BPTAC01	1591	ALUMINUM,CUT WITH DISC, ROUTER OR SIMILAR MOUNTED IN PNEUMATIC GUN, PROCESS TIME ONLY	
807	TAA	BPTAC02	1985	ALUMINUM,CUT WITH SAW MOUNTED IN PNEUMATIC GUN STARTS WITH SAW IN POSITION FOR CUTTING	
807	TAA	BPTBS01	50	BOLT(HUCK LOCK), SET WITH PULL TYPE GUN	
807	TAA	BPTCS01	153	COLLAR(RIVET), SPLIT WITH PNEUMATIC RIVET GUN, PROCESS TIME ONLY	
807	TAA	BPTJI01	49	JO-BOLT, INSTALL WITH PNEUMATIC TOOL	
807	TUA	SSRSAXX	VARIABLE	SEALANT, APPLY WITH PNEUMATIC SEALANT GUN	26
807	MAA	MTFFIXX	VARIABLE	FASTENER(ANCHORED), INSTALL RIV-NUT, MANUAL MOTIONS ONLY	
807	MBA	STFBIXX	VARIABLE	BOLT(HI-LOK), INSTALL WITH MANUAL TOOLS	
807	MAA	STFBIC7	473	BOLT(HI-LOK), INSTALL, POWER TOOLS, FIRST	27
807	MAA	STFBIO8	390	BOLT(HI-LOK), INSTALL, POWER TOOLS, ADDITIONAL	
807	MBA	STFBRXX	VARIABLE	BOLT(HI-LOK), REMOVE, MANUAL TOOLS	
807	MBA	STFCIXX	VARIABLE	COLLAR(HI-LOK BOLT), INSTALL, MANUAL TOOLS	
807	MBA	STFCRXX	VARIABLE	COLLAR(HI-LOK BOLT), REMOVE, MANUAL TOOLS	28
807	MAA	STFFI01	883	FASTENER(ANCHORED), INSTALL DILL NUT WITH TOOL, FIRST PIECE	
807	MAA	STFFI02	730	FASTENER(ANCHORED), INSTALL DILL NUT WITH TOOL, ADDITIONAL PIECE	
807	MUA	STFFI03	610	FASTENER(ANCHORED), INSTALL RIV-NUT, FIRST PIECE	
807	MUA	STFFIC4	550	FASTENER(ANCHORED), INSTALL RIV-NUT, ADDITIONAL	29
807	MAA	STFFRXX	VARIABLE	FASTENER(ANCHORED), REMOVE DILL NUT	
807	MBA	STFIBXX	VARIABLE	BOLT(HI-TORQUE), INSTALL WITH PNEUMATIC TOOL, PER BOLT	
807	MAA	STFIB03	1069	BOLT(HI-TORQUE), INSTALL WITH HAND TOOLS IN UNOBSTRUCTED LOCATION	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OCCUP- ATION	QUALITY	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
807	MAA	STF1B04	1535	BOLT(HI-TORQUE),INSTALL WITH HAND TOOLS IN	29
807	MAA	STF1JXX	VARIABLE	JO-BCLT,INSTALL WITH HAND TOOL	30
807	MUA	STFJIXX	VARIABLE	JO-BOLT,INSTALL WITH ARO JO-BOLT GUN MODEL 7 OR SIMILAR	
807	MAA	STFJ103	631	JO-BOLT,INSTALL,OBSTRUCTED,USE JO-BOLT SET	
8C7	MUA	STFRJXX	VARIABLE	JO-BCLT,REMOVE	
807	MAA	STFRJXX	VARIABLE	JO-BOLT,REMOVE	31
8C7	MBA	STLACXX	VARIABLE	AREA(DAMAGED),CUT AWAY,ALUMINUM ALLOY TO .064 INCH THICKNESS,CIRCULAR AREA	
807	TUA	STLASXX	VARIABLE	ALUMINUM,SAW WITH JEWELER'S OR SKIN SAW,PER STRAIGHT LINEAR INCH	32
807	MBA	STLCAXX	VARIABLE	AREA(DAMAGED),CUT AWAY,ALUMINUM ALLOY TO .064 INCH THICKNESS,RECTANGULAR AREA	
8C7	MAA	STLDRXX	VARIABLE	DENT,REMOVE FROM ALUMINUM TO .064 INCH THICKNESS,PER SQUARE INCH	
8C9	MAF	MJPTSXX	VARIABLE	TRAMMEL,SET TO SCALE	
809	MAF	MTLDU01	152	DIVIDERS,USE TO SCRIBE 90-DEGREE ARC	33
8C9	MAF	MTLTU01	328	TRAMMEL,USE TO SCRIBE 90-DEGREE ARC,ONE OPERATOR,36-INCH RADIUS	
81X	MAW	MACAA01	55	AMPERAGE,ADJUST ON AC OR DC WELDING MACHINE	
81X	MAO	MACCA01	56	CONTROLS(HEAT),ADJUST ON WELDING MACHINE	
81X	MAF	MACKO01	93	KNOB,OPEN ON ACETYLENE TORCH TIP	
81X	MAW	MACHT01	74	MACHINE(WELDING),TURN ON OR OFF	
81X	MAW	MACVT01	69	VALVE(ACETYLENE AND OXYGEN),TURN OFF	
81X	MAF	MCLSCXX	VARIABLE	SLAG, CHIP WITH CHIPPING HAMMER,CHISEL,AND BRUSH	
81X	MAF	MCLSKXX	VARIABLE	SCALE,KNOCK FROM WELD WITH HAMMER AND BRUSH	34
81X	MAO	MCLSRXX	VARIABLE	SLAG,REMOVE WITH CHIPPING HAMMER	
81X	MAO	MCLSS01	30	SPATTER,SCRAPE PER INCH OF WELD	
81X	MAA	MCLTCXX	VARIABLE	TIP,CLEAN WITH SANDPAPER,WELDING GUN	
81X	MAF	MCLTC03	224	TIP,CLEAN WITH EMERY CLOTH WRAPPED AROUND FILE,SPOT WELDER	
81X	TBA	MCLTD01	728	TIP(ELECTRODE=WELDER),DRESS	
81X	MAC	MGMPC01	143	PART,CHECK FOR WARPAGE WITH 12-INCH SCALE	
81X	MAA	MJPCC01	546	CABLE(ELECTRODE HOLDER),CONNECT/DISCONNECT TO/FROM ARC WELDER	
81X	MAA	MJPCE01	350	ELECTRODE(TUNGSTEN),CHANGE IN TORCH	35
81X	MAW	MJPFA01	94	FLAME,ADJUST ON HAND TORCH	
81X	MAO	MJPGP01	110	GOOGLES(BURNING),PUT ON AND REMOVE	
81X	MAA	MJPFA01	954	HOSES(OXYGEN AND ACETYLENE),ATTACH AND REMOVE TO/FROM TORCH	

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OCCUP- ATION	QUALITY	DWMSDOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
81X	MAF	MJPJP01	435	JACKET(WELDERS),PUT ON AND TAKE OFF	35
81X	MAA	MJPRCXX	VARIABLE	ROD(WELDING),CHANGE IN ELECTRODE HOLDER	
81X	MAA	MJPRR01	83	REGULATOR,READJUST,TWO TANKS	
81X	MAA	MJPSP01	173	SHIELD(WELDING),PUT ON AND REMOVE	
81X	MAA	MJPSR01	76	SHIELD(WELDING),RAISE AND LOWER	36
81X	MAF	MJPTD01	251	TIP(TORCH),DETACH BY HAND	
81X	MAF	MJPTD02	104	TIP(ELECTRODE),DETACH FROM SPOTWELDER	
81X	MAF	MJPTI01	121	TIP(ELECTRODE),INSTALL ON SPOTWELDER	
81X	MAA	MJPTL01	67	TORCH(ACETYLENE),LIGHT WITH FRICTION TYPE IGNITER	
81X	MAF	MJPTROL	119	TENSION,RELEASE ON OXY-ACETYLENE WELDING REGULATOR	
81X	MAF	MJPVT01	321	VALVE(OXY-ACETYLENE CYLINDER),TURN OFF	
81X	TAA	MJPWP01	5206	WELDER(SPOT),PREPARE(ADJUST HEAT)	
81X	MAA	SJPTCOL	669	TIP(OXY-ACETYLENE TORCH),CHANGE WITH WRENCH	
81X	MBA	SJPTGXX	VARIABLE	TIP(ELECTRODE),GRIND	37
81X	MAF	SJPTL01	349	TORCH(OXY-ACETYLENE),LIGHT AND TURN OFF	
81X	MUA	SNFSWXX	VARIABLE	SPOT(OR SEAM),WELD	
81X	MAA	SNFWAXX	VARIABLE	WELD(SPOT),ACCOMPLISH	
81X	MUA	SNFWSXX	VARIABLE	SPOT(OR SEAM),WELD ON SCIAKY STATIONARY WELDING MACHINE	
81X	MAW	MOHTP01	355	TANK,PUT ON HAND TRUCK	38
81X	MAW	MOHTR01	126	TANK,REMOVE FROM HAND TRUCK	
81X	TAA	BPTSW01	68	SPOT,WELD	
81X	MAA	MSUCA01	187	CYCLE DIALS(SPOT WELDING MACHINE),ADJUST	
81X	MUA	SSUMS01	3995	MACHINE(WELDING),SET UP,SCIAKY OR SIMILAR AND TEST WELD THREE SPOTS	
81X	MAA	SSUMS02	3461	MACHINE(WELDING),SET UP,SCIAKY OR SIMILAR AND TEST WELD ONE TWO INCH SEAM	39
81X	MAO	MTPTI01	119	TOOL,INSERT AND REMOVE,AIR HAMMER	
810	MAA	MJPEG01	221	ELECTRODE(HELI-ARC WELDING),GRIND	
810	MAA	MJPMS01	303	MACHINE(ARC WELDING),SET UP	
810	MAA	MJPPC01	293	POLARITY(ARC WELDING MACHINE),CHANGE	
810	MAA	SJPECXX	VARIABLE	ELECTRODE(HELI-ARC WELDING),CHANGE	
810	MAF	SJPRC01	354	ROD(WELDING),CHANGE IN ELECTRODE HOLDER	
810	MAW	MNFEPO1	53	ELECTRODE,POSITION AND STRIKE ARC	40
810	EUA	MNFWAXX	VARIABLE	WELD,ACCOMPLISH,ARC WELD,PER INCH	
810	MAA	SNFWHXX	VARIABLE	WELD(INERT GAS-ARC),MAKE	
810	OBW	MOHAB01	193	ARC,BREAK AND MOVE TO NEXT WELD	

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811	MAO	MACVOXX	VARIABLE	VALVES(BLOWPIPE OXYGEN AND ACETYLENE),OPEN AND CLOSE	40
811	MAO	MCLHC01	751	HOLeS(TORCH TIP),CLEAN	
811	MAO	MCLHC02	62	HOLE(HIGH PRESSURE TIP),CLEAN	41
811	MAO	MJPBL01	120	BLOWPIPE,LIGHT	
811	MAA	MJPTR01	635	TIP(ELECTRODE=GAS),REPLACE	
811	MAO	MOHBP01	45	BLOWPIPE,POSITION TO METAL	
813	MAA	MSUTS01	129	THYRATON CONTROLS(SPOT WELDING MACHINE),SET	
814	MAA	SJPPP01	280	PRESSURE,PUMP IN BLOW TORCH TANK	
814	MAF	MNFSAXX	VARIABLE	SOLDER,APPLY TO SEAM OR JOINT,SHEET METAL	
816	MAA	MACFE01	78	FEED(FLAME CUTTING MACHINE),ENGAGE TO START AND TURN OFF	
816	MAA	MJPTA01	152	TORCH(OXY-ACETYLENE-CUTTING),ADJUST FOR CUTTING BEVEL	42
816	MAA	MSURP01	145	BAR(RADIUS),PLACE IN AND REMOVE FROM FLAME CUTTING MACHINE	
816	MAA	MSUMP01	91	MACHINE(FLAME CUTTING),PLACE ON RING	
816	MAA	MSURP01	128	RING(FLAME CUTTING MACHINE),POSITION ON PLATE TO BURN CIRCLES	
816	MAA	MSUSA01	65	SPEED DIAL(FLAME CUTTING MACHINE),ADJUST	
816	MAA	MSUTP01	103	TORCH ARM(FLAME CUTTING MACHINE),POSITION FOR BURNING CIRCLES OR STRAIGHT LINES	
816	MAA	MSUWR01	155	WHEEL(FLAME CUTTING MACHINE),REMOVE	
82X	MAA	MDACT01	586	COVER(RACEWAY BASE SECTION),INSTALL	43
82X	MAA	MDALC01	64	LUG(TERMINAL),CONNECT TO SWITCH	
82X	MAA	MDASI01	65	SOCKET(LAMP),INSERT IN REFLECTOR FITTING	
82X	MAF	MJPFUXX	VARIABLE	FISHTAPE(ELECTRICAL),UNWRAP FROM AND WRAP ON REEL,PER FOOT	
82X	MAF	MJPDP01	187	OILER,PREPARE FOR FILLING	
82X	MAF	MJPST01	161	SWITCH,TURN OFF OR ON,BRANCH LIGHTING CIRCUIT	
82X	MAF	SNFTA01	443	TAPE,APPLY TO WIRE SPLICe	44
82X	MAA	SNFTRO1	157	TIE(SPOT),REMOVE	
82X	MAA	SNFWCXX	VARIABLE	WIRE BUNDLE,COIL AND TIE	
82X	MAA	SNFWT01	1838	WIRE BUNDL,TAPE AND TIE	
82X	MAF	MOHBI01	914	BOX(JUNCTION),INSTALL ON CONDUIT	
82X	MAF	MOHPR01	90	PAPER,REMOVE FROM CONDUCTOR AFTER OUTER INSULATION HAS BEEN STRIPPED	
82X	MAF	MOHWA01	70	WIRE,ALIGN FOR FORMING IN ELECTRICAL BX	
82X	MAF	MOHWBXX	VARIABLE	WIRE,BEND 90 DEGREES FOR FORMING IN ELECTRICAL BOX	
82X	MAF	MOHWR01	1611	WRAPPING(PAPER),REMOVE FROM COIL OF WIRE	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OCCUP- ATION	QUALITY	OWMSTDOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
82X	MAA	S0HPP01	1393	PLUG/RECEPTACLE,PLACE IN PLASTIC BAG	45
82X	MAF	MTLBC01	253	BANDING,CUT ON REEL OF WIRE,CABLE,OR SIMILAR	
82X	MAF	MTLCR01	175	CONDUIT,REAM END,ONE INCH DIAMETER,HAND REAMER	
82X	MAF	MTLFU01	68	FISHTAPE(ELECTRICAL),USE,FEED INTO CONDUIT	
82X	MAF	MTLFU02	48	FISHTAPE(ELECTRICAL),USE,DISENGAGE TWO TAPES	
82X	MAF	MTLHC01	85	HOLE,CUT IN CARDBOARD CONTAINER WITH KNIFE	
82X	MAF	MTLHR01	134	HICKEY,REPOSITION ON CONDUIT	
82X	MAF	MTLLC01	83	LUG(TERMINAL),CRIMP TO WIRE	46
82X	MAF	MTLLP01	96	LOOP,PLACE ON TERMINAL AND CLOSE WITH PLIERS	
82X	MAF	MTLSB01	95	SPLICING,BEND PARALLEL TO CONDUCTOR WITH PLIERS	
82X	MAF	MTLSF01	413	SPLICING,FORM WITH PLIERS,PIGTAIL SPLICE	
82X	MAF	MTLTC01	343	THREAD,CUT IN CONDUIT	
82X	MAF	MTLWD01	192	WIRE,DISCONNECT FROM FISHTAPE AFTER PULLING	
82X	MAF	STLCBXX	VARIABLE	CONDUIT,BEND WITH HICKEY	
82X	MAA	STLPCXX	VARIABLE	PLUG(COAXIAL),CUT FROM CABLE	47
82X	MAF	STLTBXX	VARIABLE	TUBING(ELECTRICAL METALLIC),BEND WITH MANUAL BENDER	
82X	MAF	MTPAP01	108	ARM(RAM),PULL TO FREE ANVIL,HYDRAULIC CONDUIT BENDER	
82X	MAF	MTPCBXX	VARIABLE	CONDUIT,BEND WITH HYDRAULIC BENDER	
82X	MAA	MWHSM01	120	SPLICING(CENTER),MAKE	
82X	MAA	SWHSI01	1076	SPLICING(COAXIAL CABLE),INSTALL TO SHIELDED WIRE	48
82X	MAA	SWHSM01	2367	SPLICING(TWO WIRES),MAKE WITH STAKE-ON PLIERS	
82X	MAA	SWHSR01	151	SPLICING,REMOVE	
821	MAF	MBMCP01	1513	POLE,CLIMB TO LOWER CROSSARM,APPROXIMATELY 30 FEET	
821	MAF	MBMCP02	686	POLE,CLIMB FROM LOWER TO UPPER CROSSARM	
821	MAF	MBMPC01	402	POSITION,CHANGE HORIZONTALLY ON POLE	
821	MAF	SBMPC01	5843	POLE,CLIMB TO AND DESCEND FROM LOWER CROSSARM	49
821	MAF	MCLSC01	335	SHEATHING(LEAD CABLE),CLEAN BY SCRAPING	
821	MAF	MJPSP01	546	SLEEVES(RUBBER LINEMAN'S),PUT ON AND TAKE OFF	
821	MAF	SNFCI01	1411	CONNECTOR(SOLDERLESS),INSTALL,SPLIT BOLT TYPE	
821	MAF	MOHAI01	2477	ANCHOR(AND ROD ASSEMBLY),INSTALL IN HOLE AND EXPAND ANCHOR	
821	MAF	MOHBRO1	283	BELTING,REMOVE FROM LEAD SHEATHED CABLE	
821	MAF	MOHCD01	202	CUTOUT(FUSED),OPEN OR CLOSE ON POLE WITH DISCONNECT STICK	
821	MAF	MOHER01	359	EQUIPMENT,RAISE OR LOWER ON POLE WITH HANDLINE	50
821	MAF	MOHFR01	95	FILLER,REMOVE AND CUT,LEAD SHEATHED CABLE	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OCCUP- ATION	QUALITY	DWMSSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
821	MAF	M0HHI01	257	HOOD(RUBBER INSULATOR),INSTALL ON ENERGIZED LINE	50
821	MAF	M0HHP01	324	HOSE(RUBBER),PLACE ON ENERGIZED LINE	
821	MAF	MTFAA01	759	ANCHOR,ASSEMBLE TO ROD	
821	MAF	MTLPD01	157	PIKE,DRIVE INTO POLE,APPROXIMATELY 20 FEET ABOVE GROUND	
821	MAF	MTLPR01	415	POLE,ROTATE WITH CANT HOOK	
821	MAF	STLSD01	609	STEP(POLE),DRIVE INTO POLE WITH HAMMER	51
823	TAA	SWHJI01	7306	JACK/PLUG(INTERPHONE),INSTALL	
823	MAA	SWHJR01	2376	JACK/PLUG(INTERPHONE),REMOVE	
824	MAA	MDALI01	103	LAMP(FLUORESCENT),INSTALL IN LAMP HOLDER	
824	MAA	MDAPI01	72	PANEL(ELECTRICAL METER),INSTALL	
824	MAA	MDAPR01	42	PANEL(ELECTRICAL METER),REMOVE	
824	MAA	SDALI01	524	LEADS(LAMP SOCKET),INSERT THROUGH GROMMET	52
824	MAF	M0HCI01	132	CABLE,INSERT END IN BOX CONNECTOR	
824	MAA	MWHWI01	50	WIRE,INSERT THROUGH CLIP IN RACEWAY	
825	MAA	SCPCI01	1781	CLAMP,INSTALL ON WIRE BUNDLE AND SECURE TO BULKHEAD	
825	MAA	SCPCR01	1173	CLAMP(ECP),REMOVE FROM WIRE BUNDLE	
825	MAA	SCPCR02	1026	CLAMP,REMOVE FROM BULKHEAD	53
825	MAA	SCPWC01	1274	WIRE BUNDLE,CLAMP TO BULKHEAD	
825	MAA	SWHWR01	1596	WIRE/WIRE BUNDLE,ROUTE IN AIRCRAFT	
825	MAA	SWHWT01	1296	WIRE BUNDLE,TIE TO TOMBSTONE	
829	MAF	M0HFI01	VARIABLE	FUSE(ELECTRICAL),INSTALL	
829	MAF	M0HSR01	144	STARTER(FLUORESCENT),REPLACE IN FIXTURE	
829	MAF	STLBXX	VARIABLE	BULB,REPLACE WITH BULB CHANGER	54
844	MAF	MACMD01	593	MIXTURE(DRY AGGREGATE),DUMP INTO MIXER FROM HOPPER	
844	MAF	SOHCA01	462	CHUTE(EXTENSION),ATTACH TO TRANSIT MIXER	
844	MAF	MTLCC01	3699	CONCRETE,CHIP WITH CHISEL AND HAMMER,SEVEN CUBIC INCHES	
844	MAF	MTPHE01	273	HANDLES(GUIDE),EXTEND OR RETRACT,CONCRETE SAW	
844	MAF	MTPHP01	272	HAMMER(PNEUMATIC),POSITION FOR DRILLING AND REMOVE AFTER DRILLING	
844	MAF	MTPSA01	177	SPEED,ADJUST ON SELF-PROPELLING UNIT OF CONCRETE SAW	
844	MAF	MTPUE01	342	UNIT(SELF-PROPELLING),ENGAGE AND DISENGAGE, CONCRETE SAW	55
845	MAA	MPAPSXX	VARIABLE	PAINT,SPRAY ON AIRCRAFT SURFACE,PER TEN SQUARE FEET	
845	MUA	SPAII01	26690	ARROW(RESCUE),INSTALL ON AIRCRAFT	

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OCCUP-ACTION	QUALITY	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
845	MUA	SPAI101	80610	IN SIGNIA(NATIONAL-STAR), INSTALL ON AIRCRAFT	55
853	MAF	SNHWR01	230	WRAPPING(PAPER), REMOVE FROM 100-POUND BUNDLE OF ASPHALT	
853	MAF	MTLMS01	776	MIX(HOT BITUMINOUS), SPREAD WITH RAKE, PER SQUARE YARD	
853	MAF	STLA901	350	ASPHALT, BREAK INTO PIECES WITH AXE, 100-POUND BUNDLE	56
86X	MAF	MACSL01	992	SCAFFOLD(PORTABLE), LOCK AND UNLOCK WHEELS	
86X	MAF	MITFM01	922	FRAME(DOOR), MEASURE AND CENTER IN OPENING	
86X	MAF	SITFC01	1041	FRAME(DOOR), CHECK FOR VERTICAL ALIGNMENT WITH LEVEL	
86X	MAF	MJP8001	112	BLOCK(SANDING), OBTAIN AND ATTACH SANDPAPER.	
86X	MAF	SJPRC01	380	BELT, CHANGE ON HAND HELD SANDING MACHINE	
86X	MAF	MMHOP01	886	OBJECT, RAISE AND LOWER WITH MANUALLY OPERATED HOIST, AVERAGE 28-FOOT HEIGHT	57
86X	MAF	MNFAA01	367	ADHESIVE, APPLY TO FLOOR WITH SERRATED TROWEL, PER SQUARE FOOT	
86X	MAF	MNFR101	876	BRACE(BOTTOM), INSTALL IN METAL DOOR FRAME	
86X	MAF	SNFB101	380	BRACE(CENTER), INSTALL IN METAL DOOR FRAME	
86X	MAF	SNFWI01	251	WEDGE, INSTALL TO HOLD DOOR FRAME IN PLACE	
86X	MAF	SNFWI02	458	WEDGE, INSTALL TO RAISE AND LEVEL DOOR FRAME	
86X	MAF	M0HCO01	256	CUTTER(GASKET), OBTAIN FROM CASE AND PUT AWAY	
86X	MAF	M0HFU01	352	FELT(ROOFING), UNROLL 15 FEET	
86X	MAF	M0HGR01	245	GASKET, REMOVE FROM CUTTING BOARD AND ASIDE SCRAP	58
86X	MAF	SOHAFO1	296	FRAME(AND ANCHORS), ADJUST IN OPENING, METAL DOOR FRAME	
86X	MAF	SOHFA01	1613	FRAME(METAL DOOR), ASSEMBLE	
86X	MAF	MTLBA01	411	BLADE(GASKET CUTTER), ADJUST WITH CLAMPING SCREWS	
86X	MAF	MTLBU01	538	BOB(PLUMB), USE	
86X	MAF	MTLCA01	176	CUTTER(GASKET), ADJUST TO SIZE FOR RING GASKET	
86X	MAF	MTLCP01	173	CUTTER(GASKET), POSITION TO BOARD AND REMOVE	
86X	MAF	MTLGL01	125	GUN(CAULKING), LOAD WITH CARTRIDGE	
86X	MAF	MTPTC01	578	TOOL, CONNECT TO AND DISCONNECT FROM EXTENSION CORD LYING ON FLOOR	59
860	MAW	MJPBH01	75	BOARD, HOLD FOR SAWING	
860	MAF	MJPBI01	234	BIT, INSTALL IN AND REMOVE FROM BRACE	
860	MAW	MJPBI02	173	BIT, INSTALL IN AND REMOVE FROM HAND DRILL	
860	MAW	MJPBI03	102	BIT, INSTALL IN AND REMOVE FROM SPIRAL DRILL	
860	MAF	M0HCA01	111	CARTRIDGE, ASSEMBLE TO STUD	

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OCCUP- ATION	QUALITY	DWMS/STOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
860	MAW	MOHNG01	65	NAILS, GET FROM BOX	59
860	MAF	MOHPL01	704	PARTITION(ASSEMBLED), LIFT FROM FLOOR AND POSITION TO MARKS	
860	MAF	MOHPM01	277	PLATE(FOUNDATION), MAKE LEVEL WITH SHIMS	60
860	MAF	MOHPP01	441	PLATE(FOUNDATION), POSITION TO BOLTS SET IN CONCRETE	
860	MAW	MTLBP01	69	BIT(AND BRACE), POSITION FOR DRILLING AND REMOVE	
860	MAF	MTLBSXX	VARIABLE	BOARD, SAW IN MITER BOX	
860	MAW	MTLDP01	37	DRILL(SPIRAL), POSITION TO MARK AND REMOVE	
860	MAW	MTLHD01	23	HOLE, DRILL WITH SPIRAL DRILL, PER STROKE	
860	MAF	MTLLS01	281	LINE, STRIKE WITH CHALK LINE	
860	MAW	MTLNPO1	59	NAIL, POSITION AND START TO DRIVE WITH HAMMER	
860	MAF	MTLNSXX	VARIABLE	NAIL, START IN BOARD	61
860	MAW	MTLPA01	192	PLANE(HAND), ADJUST	
860	MAW	STLDHXX	VARIABLE	HOLE, DRILL WITH SPIRAL DRILL(ONE INCH HOLE)	
860	MAW	STLNRXX	VARIABLE	NAIL, REMOVE WITH HAMMER	
860	MAF	MTPG001	99	GUN(POWDER ACTUATED), OPEN AND CLOSE	
860	MAF	MTPGP01	221	GUN(POWDER ACTUATED), POSITION AND FIRE ONE BOLT OR STUD	
860	MAF	STPSI01	494	STUD, INSTALL WITH POWDER ACTUATED GUN	
861	MAF	MNFMA01	82	MORTAR, APPLY TO ONE END AND ONE SIDE OF BRICK	62
861	MAF	MNFMA02	244	MORTAR, APPLY ON THREE BRICK LENGTHS; FURROW AND CUT JOINT	
861	MAF	MNFMA03	28	MORTAR, APPLY TO ONE END OF BRICK	
861	MAF	MOHB0XX	VARIABLE	BRICK(FIRE), DIP IN ADHESIVE	
861	MAF	MOHB001	169	BRICK, OBTAIN AND WET, PREPARATORY TO INSTALLATION	
861	MAF	MOHBPO1	280	BRICK(FIRE), PLACE AND TAP INTO POSITION	
861	MAF	MOHBS01	591	BED(MORTAR SETTING), SMOOTH PRIOR TO LEVELING, PER FOUR SQUARE FEET	
861	MAF	MOHBT01	475	BRICK(JAMB FIRE), TAP INTO POSITION ON OUTSIDE CORNER	
861	MAF	MOHBT02	673	BRICK, TAP INTO POSITION FOR TIE-IN	63
861	MAF	SOHB001	429	BAG(CEMENT), OBTAIN AND OPEN	
861	MAF	SOHBR01	574	BACKING(PAPER), REMOVE FROM TILE FIELD, 13"X26"	
861	MAF	SOHGP01	333	GROUT, POUR AND WORK INTO CRACKS OF FLOOR TILE, PER SQUARE FOOT	
861	MAF	SOHTP01	417	TILE, POSITION AND LEVEL TO ADJOINING TILE	
861	MAF	MTLRB01	331	BRICK, BREAK WITH TROWEL TO FIT	
861	MAF	MTLBC01	660	BAG, CUT, CEMENT OR SIMILAR USING TROWEL	

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OCCUP- ATION	QUALITY	OWMS TOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
861	MAF	MTLBS01	357	BED(MORTAR SETTING),SCREED,PER TWO SQUARE FEET	63
861	MAF	MTLCB01	190	BRICK,CHIP OUT WITH CHISEL AND HAMMER,PER CUBIC INCH	64
861	MAF	MTLJC01	246	JOINT(MORTAR),CUT OFF,BOTTOM AND ONE END,THREE BRICKS,WITH TROWEL	
861	MAF	MTLJC02	117	JOINT(MORTAR),CUT OFF,BOTTOM AND ONE END,ONE BRICK,WITH TROWEL	
861	MAF	MTLJP01	208	JOINT(MORTAR),POINT UP HORIZONTAL AND VERTICAL 8"X16" BLOCK	
861	MAF	MTLJS01	195	JOINT(MORTAR),STRIKE,VERTICAL AND HORIZONTAL, ONE BLOCK,WITH TROWEL	
861	MAF	MTLTF01	132	TROWEL,FILL WITH MORTAR	
862	MAF	SEMP01	252	TCOL(REAMING),POSITION AND RETURN,TOLEDO 999 PIPE MACHINE OR SIMILAR	
862	MAF	MNFSIXX	VARIABLE	STAPLE,INSTALL IN PIPE COVER	
862	MAF	MOHCGXX	VARIABLE	COVER(PIPE),GET AND POSITION ON PIPE,LENGTH OF COVER=THREE FEET	65
862	MAF	MOHC001	288	CLOTH,OBTAIN FROM ROLL	
862	MAF	MOHCS01	134	CLOTH,SMOOTH AFTER WRAPPING AROUND PIPE FITTING	
862	MAF	MOHFw01	310	FITTING,WRAP WITH WIRE(CHICKEN WIRE OR SIMILAR)	
862	MAF	MOHGI01	97	GASKET,INSERT BETWEEN FLANGE JOINTS TO TWO-INCH INSIDE DIAMETER	
862	MAF	MOHJA01	332	JOINT(FLANGE),ALIGN	
862	MAF	MOHJA02	171	JOINT(FLANGE),ALIGN WITH PIN	
862	MAF	MOHL001	823	LAMPWICK,OBTAIN AND WRAP ON THREADS OF PIPE	
862	MAF	MOHPP01	264	PIPE,POSITION IN THREADING MACHINE AND REMOVE, TO FOUR-FOOT LENGTH	66
862	MAF	MOHPP02	442	PIPE,POSITION IN THREADING MACHINE AND REMOVE, 4-20 FEET IN LENGTH	
862	MAF	MOHPP03	359	PIPE,POSITION IN THREADING MACHINE CHUCK AND REMOVE,TO FOUR FOOT LENGTH	
862	MAF	MOHSA01	1757	SNAKE,ATTACH TO AND REMOVE FROM PIPE, PREPARATORY TO LEAD POUR	
862	MAF	MOHSP01	331	STAND(PIPE),POSITION UNDER PIPE	
862	MAF	MOHTB01	167	TUBING,BEND TO MATCH FITTING	
862	MAF	MOHTU01	430	TUBING,UNROLL FROM COIL	67
862	MAF	MSUDP01	253	DIE(THREADING),POSITION TO PIPE AND RETRACT, TOLEDO MODEL 999 OR SIMILAR PIPE MACHINE	
862	MAF	MSUSA01	235	SPEED,ADJUST ON HEAVY DUTY PIPE MACHINE,THREE LEVERS	
862	MAF	MSUSC01	133	SIZE(DIE),CHANGE ON HEAVY DUTY PIPE MACHINE	
862	MAF	MSUWT01	418	WHEEL,TIGHTEN OR LOOSEN TO ADJUST REAR GUIDE CLAMPS,HEAVY DUTY PIPE MACHINE	

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OCCUP- ATION	QUALITY	DWMSTDP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
862	MAF	SSUDI01	500	DIE(THREADING),INSTALL AND REMOVE,PIPE THREADING MACHINE	67
862	MAF	MTPFP01	194	PIPE,POSITION AND ENGAGE THREADS(PIPE SUSPENDED ON HOIST)	
862	MAF	MTEFA01	270	TUBING,ASSEMBLE TO THREADED FITTINGS(BOTH ENDS OF TUBING)	
862	MAF	MTLCCXX	VARIABLE	COVER(PIPE),CUT WITH HACK SAW	68
862	MAF	MTLD801	617	DIE,BACK OFF THREADING TOOL,HAND-HELD PIPE DIE	
862	MAA	MTLDP01	116	DIE,POSITION TO PIPE AND START FIRST THREAD,HAND-HELD PIPE DIE	
862	MAF	MTLJTXX	VARIABLE	JOINT(FLANGE),TIGHTEN OR LOOSEN,PRELIMINARY	
862	MAF	MTLPC01	3830	PIPE,CUT WITH PIPE CUTTER	
862	MAF	MTLTBXX	VARIABLE	TUBING,BEND WITH TUBING BENDER	
862	MAF	MTLTCXX	VARIABLE	TUBING,CUT OFF WITH HAND CUTTER	
862	MAF	STLTF01	1284	TUBING,FLARE END	69
862	MAF	STLTR01	450	TUBING,REAM END WITH HAND REAMER	
862	MUF	MVSVO01	266	VISE(PIPE),OPEN OR CLOSE AND TIGHTEN	
863	MAF	MOHSP01	208	SHINGLE(ASBESTOS),POSITION TO WALL	
863	MAF	MOHSR01	485	SHINGLE(BROKEN),REMOVE FROM WALL,ASBESTOS SHINGLE	
863	MAF	MTLSC01	146	SHINGLE,CUT WITH SHINGLE CUTTER,ASBESTOS SHINGLE	
863	MAF	MTLSPXX	VARIABLE	SHINGLE,PUNCH HOLE WITH MANUAL PUNCH,ASBESTOS SHINGLE	
864	MAF	SJPSC01	2233	SANDPAPER,CHANGE ON DRUM SANDER	70
864	MAF	MOHFM01	162	FELT,MOVE ASIDE FOR ADHESIVE APPLICATION	
864	MAF	MOHFM02	263	FELT,MOVE INTO POSITION AFTER ADHESIVE APPLICATION	
864	MAF	MTPSL01	49	SANDER(DRUM),LOWER TO OR RAISE FROM FLOOR	
865	MAF	MNFFP01	265	POINT(GLAZIER'S),INSTALL,PER POINT	
865	MAF	MOHGP01	98	GLASS,PLACE IN AND REMOVE FROM WINDOW FOR TRIAL INSTALLATION	
865	MAF	MOHGP02	138	GLASS,PLACE IN WINDOW FOR FINAL INSTALLATION	
866	MAF	MNFFN01	68	FELT(ROOFING),NAIL WITH ROOFING NAILS,PER NAIL	71
866	MAF	MOHAA01	439	ASPHALT,APPLY FLOOD COAT FROM POUR CAN	
866	MAF	MOHAE01	271	ASPHALT,EMPTY FROM BUCKET TO "LO-BOY" CART	
866	MAF	MOHAMXX	VARIABLE	ASPHALT,MOP ON SURFACE FROM WHEELED BUCKET	
866	MAF	MOHBF01	212	BUCKET,FILL WITH HOT ASPHALT FROM KETTLE	
866	MAF	MOHBR01	198	BUCKET(EMPTY),REMOVE FROM HOIST AND ATTACH FULL BUCKET AT GROUND LEVEL	
866	MAF	MTLFCXX	VARIABLE	FELT(ROOFING),CUT WITH KNIFE,PER LINEAR FOOT	

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OCCUP- ATION	QUALITY	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION	PAGE
866	M&F	MTLGS01	261	GRAVEL, SPREAD WITH SHOVEL, PER SHOVELFUL	72

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OPERATION/ELEMENT DESCRIPTION	THU VALUE	OCCUP- ATION	DWMSDTP ELEMENT	PAGE
ADHESIVE,APPLY TO FLOOR WITH SERRATED TROWEL, PER SQUARE FOOT	367	86X	MNFAA01	57
ALUMINUM,CUT WITH COMPOUND LEVER SNIPS,PER LINEAR INCH	VARIABLE	80X	STLACXX	0
ALUMINUM,CUT WITH DISC, ROUTER OR SIMILAR MOUNTED IN PNEUMATIC GUN,PROCESS TIME ONLY	1591	807	BPTAC01	25
ALUMINUM,CUT WITH SAW MOUNTED IN PNEUMATIC GUN STARTS-WITH SAW IN POSITION FOR CUTTING	1985	807	BPTAC02	25
ALUMINUM,SAW WITH JEWELER'S OR SKIN SAW,PER STRAIGHT LINEAR INCH	VARIABLE	807	STLASXX	32
AMPERAGE,ADJUST ON AC OR DC WELDING MACHINE	55	81X	MACAA01	33
ANCHOR(AND ROD ASSEMBLY),INSTALL IN HOLE AND EXPAND ANCHOR	2477	821	MJHAI01	49
ANCHOR,ASSEMBLE TO ROD	759	821	MTFAA01	50
ARC,BREAK AND MOVE TO NEXT WELD	193	810	MJHAB01	40
AREA(DAMAGED),CUT AWAY,ALUMINUM ALLOY TO .064 INCH THICKNESS,CIRCULAR AREA	VARIABLE	807	STLACXX	31
AREA(DAMAGED),CUT AWAY,ALUMINUM ALLOY TO .064 INCH THICKNESS,RECTANGULAR AREA	VARIABLE	807	STLCAXX	32
ARM(RAM),PULL TO FREE ANVIL,HYDRAULIC CONDUIT BENDER	109	82X	MTPAP01	47
ARROW(RESUE),INSTALL ON AIRCRAFT	26690	845	SPAAI01	55
ASPHALT,APPLY FLOOD COAT FROM POUR CAN	439	866	MJHAA01	71
ASPHALT,BREAK INTO PIECES WITH AXE,100-POUND BUNDLE	350	853	STLA301	56
ASPHALT,EMPTY FROM BUCKET TO "LC-BOY" CART	271	866	MJHAE01	71
ASPHALT,MOP ON SURFACE FROM WHEELED BUCKET	VARIABLE	866	MJHAMXX	71
BACKING(PAPER),REMOVE FROM TILE FIELD,13"X26"	574	861	SJHBRO1	63
BAG(CEMENT),OBTAIN AND OPEN	429	861	SQHBO01	63
BAG,CUT,CEMENT OR SIMILAR USING TROWEL	660	861	MTLB001	63
BANDING,CUT ON REEL OF WIRE,CABLE,OR SIMILAR	253	82X	MTLAC01	45
BAR(RADIUS),PLACE IN AND REMOVE FROM FLAME CUTTING MACHINE	145	816	MSUBP01	42
BED(MORTAR SETTING),SCREED,PER TWO SQUARE FEET	357	861	MTLB501	63
BED(MORTAR SETTING),SMOOTH PRIOR TO LEVELING, PER FOUR SQUARE FEET	591	861	MJHBS01	62
BELT,CHANGE ON HAND HELD SANDING MACHINE	380	86X	SJPBC01	56
BELTING,REMOVE FROM LEAD SHEATHED CABLE	283	821	MJHBRO1	49
BIT(AND BRACE),POSITION FOR DRILLING AND REMOVE	69	860	MTLB001	60
BIT,INSTALL IN AND REMOVE FROM BRACE	234	860	MJPBI01	59
BIT,INSTALL IN AND REMOVE FROM HAND DRILL	173	860	MJPBI02	59
BIT,INSTALL IN AND REMOVE FROM SPIRAL DRILL	102	860	MJPBI03	59

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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP-ATION	DWMSTDPELEMENT	PAGE
BLADE(GASKET CUTTER),ADJUST WITH CLAMPING SCREWS	411	86X	MTLBA01	58
BLOCK(SANDING),OBTAIN AND ATTACH SANDPAPER	112	86X	MJP8001	56
BLOWPIPE,LIGHT	120	811	MJPBL01	41
BLOWPIPE,POSITION TO METAL	45	811	MOH8P01	41
BOARD,HOLD FOR SAWING	75	860	MJPBH01	59
BOARD,SAW IN MITER BOX	VARIABLE	860	MTLBSXX	60
BOB(PLUMB),USE	538	86X	MTLBU01	58
BOLT(HI-LOK),INSTALL,POWER TOOLS,FIRST	473	807	STFB107	27
BOLT(HI-LOK),INSTALL,POWER TCOls, ADDITIONAL	390	807	STFB108	27
BOLT(HI-LOK),INSTALL WITH MANUAL TOOLS	VARIABLE	807	STFBIXX	26
BOLT(HI-LOK),REMOVE,MANUAL TCOls	VARIABLE	807	STFBRXX	27
BOLT(HI-TORQUE),INSTALL WITH PNEUMATIC TOOL, PER BOLT	VARIABLE	807	STFIBXX	29
BOLT(HI-TORQUE),INSTALL WITH HAND TOOLS IN UNOBSTRUCTED LOCATION	1069	807	STFIB03	29
BOLT(HI-TORQUE),INSTALL WITH HAND TOOLS IN	1535	807	STFIB04	29
BOLT(HUCK LOCK),SET WITH PULL TYPE GUN	50	807	BPTBS01	25
BOX(JUNCTION),INSTALL ON CONDUIT	914	82X	MCHB101	44
BRACE(BOTTOM),INSTALL IN METAL DOOR FRAME	876	86X	MNFBI01	57
BRACE(CENTER),INSTALL IN METAL DOOR FRAME	380	86X	SNFBI01	57
BRICK(FIRE),DIP IN ADHESIVE	VARIABLE	861	MOH8DXX	62
BRICK(FIRE),PLACE AND TAP INTO POSITION	280	861	MOH8P01	62
BRICK(JAMB FIRE),TAP INTO POSITION ON OUTSIDE CORNER	475	861	MOH8T01	62
BRICK,BREAK WITH TROWEL TO FIT	331	861	MTLB801	63
BRICK,CHIP OUT WITH CHISEL AND HAMMER,PER CUBIC INCH	190	861	MTLC801	64
BRICK,OBTAIN AND WET,PREPARATORY TO INSTALLATION	169	861	MOH8001	62
BRICK,TAP INTO POSITION FOR TIE-IN	673	861	MCHBT02	63
BUCKET(EMPTY),REMOVE FROM HOIST AND ATTACH FULL BUCKET AT GROUND LEVEL	198	866	MCH8R01	71
BUCKET,FILL WITH HOT ASPHALT FROM KETTLE	212	866	MCHBF01	71
BULB,REPLACE WITH BULB CHANGER	VARIABLE	829	STLBRXX	54
CABLE(ELECTRODE HOLDER),CONNECT/DISCONNECT TO/FROM ARC WELDER	546	81X	MJPCC01	34
CABLE,INSERT END IN BOX CONNECTOR	132	824	MOHC101	52
CARTRIDGE(SEALANT),INSTALL IN AND REMOVE FROM GUN	1330	807	SJPC101	15
CARTRIDGE,ASSEMBLE TO STUD	111	860	MOHCA01	59

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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWMS TDP ELEMENT	PAGE
CHISEL,CHANGE IN PNEUMATIC HAND CHIPPER	243	8XX	STPCC01	2
CHUTE(EXTENSION),ATTACH TO TRANSIT MIXER	462	844	S3HCA01	54
CLAMP(BAR),INSTALL AND REMOVE	VARIABLE	8XX	MOPCIXX	1
CLAMP(ECP),REMOVE FROM WIRE BUNDLE	1173	825	SCPCR01	52
CLAMP,INSTALL ON WIRE BUNDLE AND SECURE TO BULKHEAD	1781	825	SCPCIO1	52
CLAMP,REMOVE FROM BULKHEAD	1026	825	SCPCR02	53
CLOTH,OBTAIN FROM ROLL	288	862	MOHC001	65
CLOTH,SMOOTH AFTER WRAPPING AROUND PIPE FITTING	134	862	MOHCS01	65
COLLAR(HI-LOK BOLT),INSTALL,MANUAL TOOLS	VARIABLE	807	STFCIXX	27
COLLAR(HI-LOK BOLT),REMOVE,MANUAL TOOLS	VARIABLE	807	STFCRXX	28
COLLAR(RIVET),SPLIT WITH PNEUMATIC RIVET GUN, PROCESS TIME ONLY	153	807	BPTCS01	25
COLLAR,CUT FROM DRAW TYPE SHEAR PIN	VARIABLE	807	SNFCCXX	10
CONCRETE,CHIP WITH CHISEL AND HAMMER,SEVEN CUBIC INCHES	3699	844	MTLCC01	54
CONDUIT,BEND WITH HICKEY	VARIABLE	82X	STLCBXX	46
CONDUIT,BEND WITH HYDRAULIC BENDER	VARIABLE	82X	MTPCBXX	47
CONDUIT,PEAM END,ONE INCH DIAMETER,HAND REAMER	175	82X	MTLCR01	45
CONNECTOR(SOLDERLESS),INSTALL,SPLIT BOLT TYPE	1411	821	SNFCIO1	49
CONTROLS(HEAT),ADJUST ON WELDING MACHINE	56	81X	MACAO1	33
COVER(PIPE),CUT WITH HACK SAW	VARIABLE	862	MTLCCXX	68
COVER(PIPE),GET AND POSITION ON PIPE,LENGTH OF COVER-THREE FEET	VARIABLE	862	MJHCGXX	65
COVER(RACEWAY BASE SECTION),INSTALL	586	82X	MDACIO1	43
CUTOUT(FUSED),OPEN OR CLOSE ON POLE WITH DISCONNECT STICK	202	821	MJHCO01	49
CUTTER(GASKET),ADJUST TO SIZE FOR RING GASKET	176	86X	MTLCA01	58
CUTTER(GASKET),OBTAIN FROM CASE AND PUT AWAY	256	86X	MOHCO01	57
CUTTER(GASKET),POSITION TO BOARD AND REMOVE	173	86X	MTLCPO1	58
CYCLE DIALS(SPOT WELDING MACHINE),ADJUST	187	81X	MSUCA01	38
DENT,REMOVE FROM ALUMINUM TO .064 INCH THICKNESS,PER SQUARE INCH	VARIABLE	807	STLDRXX	32
DIE(THREADING),INSTALL AND REMOVE,PIPE THREADING MACHINE	500	862	SSUDIO1	67
DIE(THREADING),POSITION TO PIPE AND RETRACT, TOLEDO MODEL 999 OR SIMILAR PIPE MACHINE	253	862	MSJDPO1	67
DIE,BACK OFF THREADING TOOL,HAND-HELD PIPE DIE	617	862	MTLD801	63
DIE,CHANGE IN STOCK,HAND THREADING DIE	211	8XX	MJPDC01	1
DIE,INSTALL IN AND REMOVE FROM DIE STOCK,TWO SETSCREWS SECURING	802	8XX	SJPDIO1	1

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DIE, POSITION TO PIPE AND START FIRST THREAD, HAND-HELD PIPE DIE	116	862	MTLDPO1	68
DIMPLE(COLD), FORM WITH HAND DIMPLER	VARIABLE	800	STLDFXX	12
DIMPLE MACHINE, SET UP(COLD)	3359	800	SSUDS01	11
DIVIDERS, USE TO SCRIBE 90-DEGREE ARC	152	809	MTLDU01	33
DOUBLER(OR FILLER), FABRICATE, FLAT CIRCULAR	VARIABLE	807	SFADFXX	13
DRILL(SPIRAL), POSITION TO MARK AND REMOVE	37	860	MTLDPO1	60
ELECTRODE(HELI-ARC WELDING), GRIND	221	810	MJPEG01	39
ELECTRODE(HELI-ARC WELDING), CHANGE	VARIABLE	810	SJPECXX	39
ELECTRODE(TUNGSTEN), CHANGE IN TORCH	350	81X	MJPEC01	35
ELECTRODE, POSITION AND STRIKE ARC	53	810	MNFEP01	40
EQUIPMENT, RAISE OR LOWER ON POLE WITH HANDLINE	359	821	MUHER01	50
FASTENER(ANCHORED), INSTALL MISSING FLOATING OR CHANNEL NUT ONLY, ALL TYPES, FIRST PIECE	497	807	SNFFI01	16
FASTENER(ANCHORED), INSTALL MISSING FLOATING OR CHANNEL NUT ONLY, ALL TYPES, ADDITIONAL PIECE	454	807	SNFFI02	16
FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE, OR DZUS SPRING, 1-MAN OPERATION, FIRST PIECE	3610	807	SNFFI03	17
FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE, OR DZUS SPRING, 1-MAN OPERATION, ADDITIONAL PIECE	1840	807	SNFFI04	17
FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE, OR DZUS SPRING, 2-MAN OPERATION, FIRST PIECE	5770	807	SNFFI05	17
FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING, 2-MAN OPERATION, ADDITIONAL	3250	807	SNFFI06	18
FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY WITH BLIND RIVETS, FIRST OR SINGLE THREE-NUT LENGTH	18850	807	SNFFI07	18
FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY WITH BLIND RIVETS, EACH ADDITIONAL THREE-NUT LENGTH	4530	807	SNFFI08	18
FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS, FIRST OR SINGLE THREE-NUT LENGTH	14970	807	SNFFI09	18
FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS, EACH ADDITIONAL THREE-NUT LENGTH	2880	807	SNFFI10	18
FASTENER(ANCHORED), INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, FIRST PIECE	5390	807	SNFFI11	19
FASTENER(ANCHORED), INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, ADDITIONAL	3180	807	SNFFI12	19
FASTENER(ANCHORED), INSTALL DILL NUT WITH TOOL, FIRST PIECE	883	807	STFFI01	28
FASTENER(ANCHORED), INSTALL DILL NUT WITH TOOL, ADDITIONAL PIECE	730	807	STFFI02	28

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FASTENER(ANCHORED), INSTALL RIV-NUT, FIRST PIECE	610	807	STFFI03	28
FASTENER(ANCHORED), INSTALL RIV-NUT, ADDITIONAL	550	807	STFFI04	29
FASTENER(ANCHORED), PREPARE HOLE AND INSTALL	VARIABLE	807	SNFFPXX	20
FASTENER(ANCHORED), REMOVE WORN OR STRIPPED FLOATING OR CHANNEL NUT ONLY	VARIABLE	807	SNFRFXX	24
FASTENER(ANCHORED), REMOVE DILL NUT	VARIABLE	807	STFFRXX	29
FASTENER(ANCHORED), REPLACE	VARIABLE	807	SNFFRXX	21
FASTENER(BLIND), REMOVE, DEUTSCH DRIVE PIN RIVET	VARIABLE	800	SNFFRXX	8
FASTENER(CAMLOC), LOOSEN	VARIABLE	80X	MNFFLXX	3
FASTENFR(CAMLOC), TIGHTEN	VARIABLE	80X	MNFFTXX	3
FASTENER(HIGH STRENGTH), INSTALL	VARIABLE	80X	SNFFIXX	4
FASTENER(TURNLOCK), SEAT AND TIGHTEN	VARIABLE	80X	SNFFSXX	5
FASTENER(TURNLOCK), UNLOCK	VARIABLE	80X	SNFFUXX	5
FASTENERS(HIGH STRENGTH), REPLACE	VARIABLE	80X	SNFFRXX	5
FASTNEP(ANCHORED), INSTALL RIV-NUT, MANUAL MOTIONS ONLY	VARIABLE	807	MTFFIXX	26
FFF0(FLAME CUTTING MACHINE), ENGAGE TO START AND TURN OFF	78	816	MACFE01	41
FELT(ROOFING), CUT WITH KNIFE, PER LINEAR FOOT	VARIABLE	866	MTLFCXX	71
FELT(ROOFING), NAIL WITH ROOFING NAILS, PER NAIL	68	866	MNFFN01	71
FELT(ROOFING), UNROLL 15 FEET	352	86X	MJHFM01	57
FELT, MOVE ASIDE FOR ADHESIVE APPLICATION	162	864	MJHFM01	70
FELT, MOVE INTO POSITION AFTER ADHESIVE APPLICATION	263	864	MJHFM02	70
FILLER(OR DOUBLER), FABRICATE, FLAT RECTANGULAR, TO .064 INCH THICK	VARIABLE	807	SFAFFXX	14
FILLER, REMOVE AND CUT, LEAD SHEATHED CABLE	95	821	MJHFR01	50
FINDER(HOLE), USE, LEAF TYPE	VARIABLE	80X	MTLFUXX	6
FISHTAPE(ELECTRICAL), UNWRAP FROM AND WRAP ON REEL, PER FOOT	VARIABLE	82X	MJPFLUXX	43
FISHTAPE(ELECTRICAL), USE, FEED INTO CONDUIT	68	82X	MTLFU01	45
FISHTAPE(ELECTRICAL), USE, DISENGAGE TWO TAPES	48	82X	MTLFU02	45
FITTING, WRAP WITH WIRE(CHICKEN WIRE OR SIMILAR)	310	862	MJHFW01	65
FLAME, ADJUST ON HAND TORCH	94	81X	MJPFA01	35
FRAME(AND ANCHORS), ADJUST IN OPENING, METAL DOOR FRAME	296	86X	SDHAF01	58
FRAME(DOOR), CHECK FOR VERTICAL ALIGNMENT WITH LEVEL	1041	86X	SITFC01	50
FRAME(DOOR), MEASURE AND CENTER IN OPENING	922	86X	MIFEM01	56
FRAME(METAL DOOR), ASSEMBLE	1613	86X	SDHFA01	58

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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP-ACTION	DRMSTOR ELEMENT	PAGE
FUSE(ELECTRICAL),INSTALL	VARIABLE	829	MJHFIXX	53
GAP(DIE),ADJUST(DIMPLING MACHINE-COLD)	1121	800	SSUGA01	12
GAS,TURN ON,LIGHT,AND TURN OFF,GAS BURNER FOR HEATING SOLDERING IRON OR SIMILAR	130	8XX	MJPGT01	1
GASKET,INSERT BETWEEN FLANGE JOINTS TO TWO-INCH INSIDE DIAMETER	97	862	MJHGI01	65
GASKET,REMOVE FROM CUTTING BOARD AND ASIDE SCRAP	245	86X	MJHGR01	58
GLASS,PLACE IN AND REMOVE FROM WINDOW FOR TRIAL INSTALLATION	98	865	MJHGP01	70
GLASS,PLACE IN WINDOW FOR FINAL INSTALLATION	138	865	MJHGP02	70
GOOGLES(BURNING),PUT ON AND REMOVE	110	81X	MJPGP01	35
GRAVEL,SPREAD WITH SHOVEL,PER SHOVELFUL	261	866	MTLGS01	72
GROMMET(AND STUD),INSTALL,DZLS FASTENER,USING PNEUMATIC FLOOR DIMPLER	VARIABLE	807	SVFIGXX	22
GROMMET(AND STUD),REMOVE,DZLS FASTENER,MANUAL MOTIONS ONLY	VARIABLE	807	MVFGRXX	15
GROMMET(CAMLOC),INSTALL WITH SNAP RING	VARIABLE	807	SVFGIXX	21
GROMMET(CAMLOC),REMOVE,SECURED WITH SNAP RING	VARIABLE	807	SNFGRXX	21
GROUT,POUR AND WORK INTO CRACKS OF FLOOR TILE, PER SQUARE FOOT	333	861	SJHGP01	63
GUN(CAULKING),LOAD WITH CARTRIDGE	125	86X	MTLGL01	58
GUN(POWDER ACTUATED),OPEN AND CLOSE	99	860	MTPG001	61
GUN(POWDER ACTUATED),POSITION AND FIRE ONE BOLT OR STUD	221	860	MTPGP01	61
GUN(RIVET),SET UP,CHANGE RIVET SET	173	800	SJPGS02	7
GUN(RIVET),SET UP,INITIAL	424	800	SJPGS01	7
HAMMER(PNEUMATIC),POSITION FOR DRILLING AND REMOVE AFTER DRILLING	272	844	MTPHP01	54
HANDLES(GUIDE),EXTEND OR RETRACT,CONCRETE SAW	273	844	MTPHE01	54
HICKEY,REPOSITION ON CONDUIT	134	82X	MTLHR01	45
HOLE(HIGH PRESSURE TIP),CLEAN	62	811	MCLHC02	41
HOLE,CUT IN ALUMINUM TO .064 INCH THICKNESS, RECTANGULAR ACCESS HOLE	VARIABLE	807	SFACHXX	13
HOLE,CUT IN ALUMINUM TO .064 INCH THICKNESS, CIRCULAR ACCESS HOLE	VARIABLE	807	SFAHCXX	14
HOLE,CUT IN CARDBOARD CONTAINER WITH KNIFE	85	82X	MTLHC01	45
HOLE,DIMPLE(COLD AND HOT)	TABLE	800	TEMHOXX	7
HOLE,DRILL WITH SPIRAL DRILL,PER STROKE	23	860	MTLHD01	60
HOLE,DRILL WITH SPIRAL DRILL(ONE INCH HOLE)	VARIABLE	860	STLDHXX	61
HOLE,GAUGE TO DETERMINE RIVET LENGTH	178	80X	MGMHG01	2
HOLE,PUNCH WITH PORTABLE PUNCH	VARIABLE	8XX	MTLHPXX	2

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OPERATION/ELEMENT DESCRIPTION	THU VALUE	OCCUP-A-TION	DMSTP ELEMENT	PAGE
HOLE, REAM WITH HAND REAMER	VARIABLE	80X	MTLHRXX	6
HOLES(TORCH TIP), CLEAN	751	811	MCLHCO1	40
HOOD(RUBBER INSULATOR), INSTALL ON ENERGIZED LINE	257	821	MOHHI01	50
HOSE(RUBBER), PLACE ON ENERGIZED LINE	324	821	MOHHPO1	50
HOSES(OXYGEN AND ACETYLENE), ATTACH AND REMOVE TO/FROM TORCH	954	81X	MJPHAO1	35
INSIGNIA(NATIONAL-STAR), INSTALL ON AIRCRAFT	80610	845	SPAI101	55
JACK/PLUG(INTERPHONE), INSTALL	7306	823	SWHJI01	51
JACK/PLUG(INTERPHONE), REMOVE	2376	823	SWHJR01	51
JACKET(WELDERS), PUT ON AND TAKE OFF	435	81X	MJPJP01	35
JO-BOLT, INSTALL, OBSTRUCTED, USE JO-BOLT SET	631	807	STFJI03	30
JO-BOLT, INSTALL WITH ARD JO-BOLT GUN MODEL 7 OR SIMILAR	VARIABLE	807	STFJIXX	30
JO-BOLT, INSTALL WITH HAND TOOL	VARIABLE	807	STFIJXX	30
JO-BOLT, INSTALL WITH PNEUMATIC TOOL	49	807	BPTJI01	25
JO-BOLT, REMOVE	VARIABLE	807	STFJRXX	30
JO-BOLT, REMOVE	VARIABLE	807	STFRJXX	31
JOINT(FLANGE), ALIGN	332	862	MOHJA01	65
JOINT(FLANGE), ALIGN WITH PIN	171	862	MOHJA02	65
JOINT(FLANGE), TIGHTEN OR LOOSEN, PRELIMINARY	VARIABLE	862	MTLJTXX	68
JOINT(MORTAR), CUT OFF, BOTTOM AND ONE END, THREE BRICKS, WITH TROWEL	246	861	MTLJC01	64
JOINT(MORTAR), CUT OFF, BOTTOM AND ONE END, ONE BRICK, WITH TROWEL	117	861	MTLJC02	64
JOINT(MORTAR), POINT UP HORIZONTAL AND VERTICAL 8"X16" BLOCK	208	861	MTLJP01	64
JOINT(MORTAR), STRIKE, VERTICAL AND HORIZONTAL, ONE BLOCK, WITH TROWEL	195	861	MTLJS01	64
KNOB, OPEN ON ACETYLENE TORCH TIP	93	81X	MACK001	33
LADDER(EXTENSION), MOVE, WEIGHT TO 60 POUNDS	347	8XX	MOHLM01	2
LADDER(EXTENSION), MOVE, LADDER 20 FEET LONG	440	8XX	MOHLM02	2
LAMINATION, REMOVE ONE LAYER FROM SHIMSTOCK, TO TWO INCHES WIDE AND SIX INCHES LONG	VARIABLE	80X	STLLRXX	6
LAMP(FLUORESCENT), INSTALL IN LAMP HOLDER	103	824	MOALI01	51
LAMPWICK, OBTAIN AND WRAP ON THREADS OF PIPE	823	862	MJHL001	65
LEADS(LAMP SOCKET), INSERT THROUGH GROMMET	524	824	SDALI01	52
LINE, INSCRIBE, CIRCULAR, USING FINGER AS A GUIDE	TABLE	8XX	TLOLIXX	2
LINE, MARK WITH CHALK LINE	VARIABLE	8XX	MLOLMXX	1
LINE, STRIKE WITH CHALK LINE	281	860	MTLLS01	60

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LOCK(WEDGE), INSTALL	VARIABLE	80X	SNFLIXX	5
LOCK(WEDGE), REMOVE WITH PNEUMATIC TOOL	231	80X	SNFLR01	6
LOOP, PLACE ON TERMINAL AND CLOSE WITH PLIERS	96	82X	MTLLP01	46
LUG(TERMINAL), CONNECT TO SWITCH	64	82X	MDALC01	43
LUG(TERMINAL), CRIMP TO WIRE	83	82X	MTLLC01	46
MACHINE(ARC WELDING), SET UP	303	810	MJPM501	39
MACHINE(FLAME CUTTING), PLACE ON RING	91	816	MSUMP01	42
MACHINE(HOT DIMPLE), SET UP	4624	800	SSUMS01	12
MACHINE(WELDING), SET UP, SCIAKY OR SIMILAR AND TEST WELD THREE SPOTS	3995	81X	SSUMS01	38
MACHINE(WELDING), SET UP, SCIAKY OR SIMILAR AND TEST WELD ONE TWO INCH SEAM	3461	81X	SSUMS02	39
MACHINE(WELDING), TURN ON OR OFF	74	81X	MACMT01	33
METAL,CUT WITH SNIPS,PER INCH,SHEET METAL	VARIABLE	80X	STLMCXX	7
METAL,HEAT WITH DIMPLING DIE	VARIABLE	800	BPTMHXX	11
MIX(HOT BITUMINOUS),SPREAD WITH RAKE,PER SQUARE YARD	776	853	MTLMS01	55
MIXTURE(DRY AGGREGATE),DUMP INTO MIXER FROM HOPPER	593	844	MACMD01	54
MORTAR,APPLY ON THREE BRICK LENGTHS;FURROW AND CUT JOINT	244	861	MNFMA02	62
MORTAR,APPLY TO ONE END AND ONE SIDE OF BRICK	82	861	MNFMA01	62
MORTAR,APPLY TO ONE END OF BRICK	28	861	MNFMA03	62
NAIL,POSITION AND START TO DRIVE WITH HAMMER	59	860	MTLNPO1	60
NAIL,REMOVE WITH HAMMER	VARIABLE	860	STLNRXX	61
NAIL,START IN BOARD	VARIABLE	860	MTLNSXX	61
NAILS,GET FROM BOX	65	860	MOHNG01	59
NUT(ANCHOR),INSTALL,DRILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE,FIRST NUT,EASY ACCESS	4502	807	SVFNI03	23
NUT(ANCHOR),INSTALL,EASY ACCESS,DRILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE,EACH ADDITIONAL NUT	2863	807	SVFNI04	23
NUT(ANCHOR),INSTALL IN EXISTING HOLES,EASY ACCESS	VARIABLE	807	SNFINXX	22
NUT(ANCHOR),INSTALL WITH TWO RIVETS,FIRST NUT (USE DRILL JIG TO LOCATE ATTACH HOLES)	4039	807	SVFNI05	23
NUT(ANCHOR),INSTALL WITH TWO RIVETS,ADDITIONAL NUT(USE DRILL JIG TO LOCATE ATTACH HOLES)	1448	807	SVFNI06	23
NUT(CHANNEL),INSTALL	VARIABLE	807	SNFINXX	22
OBJECT,RAISE AND LOWER WITH MANUALLY OPERATED HOIST,AVERAGE 28-FOOT HEIGHT	886	86X	M4HOR01	57
OILER,PREPARE FOR FILLING	187	82X	MJPOPO1	43

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PAINT,SPRAY ON AIRCRAFT SURFACE,PER TEN SQUARE FEET	VARIABLE	845	MPAPSXX	55
PANEL(ELECTRICAL METER),INSTALL	72	824	M0AP101	51
PANEL(ELECTRICAL METER),REMOVE	42	824	M0APR01	51
PAPER,REMOVE FROM CONDUCTOR AFTER OUTER INSULATION HAS BEEN STRIPPED	90	82X	M0HPR01	44
PART,CHECK FOR WARPAGE WITH 12-INCH SCALE	143	81X	MGMPC01	34
PARTITION(ASSEMBLED),LIFT FRM FLOOR AND POSITION TO MARKS	704	860	M0HPL01	59
PIECES,POSITION TO ASSEMBLE PITTSBURGH LOCK SEAM	VARIABLE	804	M0HPPXX	12
PIKE,DRIVE INTO POLE,APPROXIMATELY 20 FEET ABOVE GROUND	157	821	MTLPD01	50
PIN(DRAW TYPE SHEAR),INSTALL	458	807	SVFPI01	24
PIPE,CUT WITH PIPE CUTTER	3830	862	MTLPC01	68
PIPE,POSITION AND ENGAGE THREADS(PIPE SUSPENDED ON HOIST)	194	862	MTFPP01	67
PIPE,POSITION IN THREADING MACHINE AND REMOVE, TO FOUR-FOOT LENGTH	264	862	M0HPP01	66
PIPE,POSITION IN THREADING MACHINE AND REMOVE, 4-20 FEET IN LENGTH	442	862	M0HPP02	66
PIPE,POSITION IN THREADING MACHINE CHUCK AND REMOVE,TO FOUR FOOT LENGTH	359	862	M0HPP03	66
PLANE(HAND),ADJUST	192	860	MTLPA01	61
PLATE(FOUNDATION),MAKE LEVEL WITH SHIMS	277	860	M0HPM01	50
PLATE(FOUNDATION),POSITION TO BOLTS SET IN CONCRETE	441	860	M0HPP01	50
PLUG(COAXIAL),CUT FROM CABLE	VARIABLE	82X	STLPCXX	47
PLUG/RECEPTACLE,PLACE IN PLASTIC BAG	1393	82X	SJHPP01	45
POINT(GLAZIER'S),INSTALL,PER POINT	265	865	MVFPI01	70
POLARITY(ARC WELDING MACHINE),CHANGE	293	810	MJPPC01	39
POLE,CLIMB FROM LOWER TO UPPER CROSSARM	686	821	M8MCP02	48
POLE,CLIMB TO AND DESCEND FROM LOWER CROSSARM	5843	821	SBMPC01	49
POLE,CLIMB TO LOWER CROSSARM,APPROXIMATELY 30 FEET	1513	821	M8MCP01	48
POLE,ROTATE WITH CANT HOOK	415	821	HTLPRO1	50
POSITION,CHANGE HORIZONTALLY ON POLE	402	821	M3MPC01	48
POUCH(TOOL),PUT AROUND WAIST WITH STRAP AND REMOVE	363	8XX	SJPPP01	1
PRESSURE,PUMP IN BLOW TORCH TANK	280	814	SJPPP01	41
RATCHET,REVERSE ON THREADING TOOL	54	8XX	MTLRR01	2
REGULATOR,READJUST,TWO TANKS	83	81X	MJPPR01	35

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP-ACTION	DWMSTDPELEMENT	PAGE
RING(FLAME CUTTING MACHINE),POSITION ON PLATE TO BURN CIRCLES	128	816	MSURPO1	42
RIVET(DEUTSCH DRIVE PIN),INSTALL,ALL SIZES	VARIABLE	800	SNFIRXX	8
RIVET(HI-SHEAR),INSTALL,FIRST	703	800	SNFRIO9	10
RIVET(HI-SHEAR),INSTALL,ADDITIONAL	466	800	SNFRIO10	10
RIVET,CUT PROTRUDING HEAD WITH RIVET GUN AND CHISEL	VARIABLE	800	SNFCRXX	8
RIVET,DRILL AND REMOVE,COUNTERSUNK OR UNIVERSAL HEAD	VARIABLE	800	SNFRDXX	9
RIVET,DRIVE OUT WITH HAMMER AND PIN PUNCH,2-MAN OPERATION	VARIABLE	800	SNFDRXX	8
RIVET,INSPECT WITH LIGHT	226	800	SITRI01	7
RIVET,INSPECT WITH LIGHT AND MIRROR	370	800	SITRI02	7
RIVET,INSTALL	VARIABLE	800	SNFRIXX	9
RIVET,INSTALL,BLIND,PULLED,ALL TYPES,FIRST RIVET	525	800	SNFRII1	10
RIVET,INSTALL,BLIND,PULLED,ALL TYPES,EACH ADDITIONAL RIVET	445	800	SNFRII2	10
RIVET,INSTALL,COLLARED FASTENER,3/16=1/4 INCH DIAMETER,FIRST RIVET	683	800	SNFRIO7	9
RIVET,INSTALL,COLLARED FASTENER 3/16=1/4 INCH DIAMETER,ADDITIONAL RIVET	335	800	SNFRIO8	9
RIVET,KNOCK OUT,COLLARED FASTENER,ALUMINUM	VARIABLE	800	SNFRKXX	10
RIVET,REMOVE,SOLID,DRIVEN	VARIABLE	800	SNFRXX	11
RIVET,SET WITH PNEUMATIC GUN,PROCESS TIME ONLY	257	800	BPTRS01	11
POD(WELDING),CHANGE IN ELECTRODE HOLDER	VARIABLE	81X	MJPRCXX	35
POD(WELDING),CHANGE IN ELECTRODE HOLDER	354	810	SJPRC01	39
RULE,USE TO MEASURE	317	8XX	MGMRU01	1
SANDER(DRUM),LOWER TO OR RAISE FROM FLOOR	49	864	MTPSL01	70
SANDPAPER,CHANGE ON DRUM SANDER	2233	864	SJPSC01	70
SCAFFOLD(PORTABLE),LOCK AND UNLOCK WHEELS	992	86X	MACSL01	56
SCALE,KNOCK FROM WELD WITH HAMMER AND BRUSH	VARIABLE	81X	MCLSKXX	34
SEALANT,APPLY WITH PNEUMATIC SEALANT GUN	VARIABLE	807	SSRSAXX	26
SHFATHING(LEAD CABLE),CLEAN BY SCRAPING	335	821	MCLSC01	49
SHIELD(WELDING),PUT ON AND REMOVE	173	81X	MJPSP01	35
SHIELD(WELDING),RAISE AND LOWER	76	81X	MJPSR01	36
SHINGLE(ASBESTOS),POSITION TO WALL	208	863	MOHSP01	69
SHINGLE(BROKEN),REMOVE FROM WALL,ASBESTOS SHINGLE	485	863	MOHSR01	69
SHINGLE,CUT WITH SHINGLE CUTTER,ASBESTOS SHINGLE	146	863	MTLSC01	69

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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP-ATION	DWMSTDPELEMENT	PAGE
SHINGLE,PUNCH HOLE WITH MANUAL PUNCH,ASBESTOS SHINGLE	VARIABLE	863	MTLSPXX	69
SIZE(DIE),CHANGE ON HEAVY DUTY PIPE MACHINE	133	862	MSUSC01	67
SLAG, CHIP WITH CHIPPING HAMMER,CHISEL,AND BRUSH	VARIABLE	81X	MCLSCXX	33
SLAG, REMOVE WITH CHIPPING HAMMER	VARIABLE	81X	MCLSRXX	34
SLEEVES(RUBBER LINEMAN'S),PUT ON AND TAKE OFF	546	821	MJPSP01	49
SNAKE,ATTACH TO AND REMOVE FROM PIPE, PREPATORY TO LEAD POUR	1757	862	M0HSA01	66
SOCKET(LAMP),INSERT IN REFLECTOR FITTING	65	82X	MDAS101	43
SOLDER,APPLY TO SEAM OR JOINT, SHEET METAL	VARIABLE	814	MNFSAXX	41
SPATTER,SCRAPE PER INCH OF WELD	30	81X	MCLSS01	34
SPEED,ADJUST ON HEAVY DUTY PIPE MACHINE,THREE LEVERS	235	862	MSUSA01	67
SPEED,ADJUST ON SELF-PROPELLING UNIT OF CONCRETE SAW	177	844	MTPSA01	54
SPEED DIAL(FLAME CUTTING MACHINE),ADJUST	65	816	MSUSA01	42
SPICE(CENTER),MAKE	120	82X	MWHSM01	47
SPICE(COAXIAL CABLE),INSTALL TO SHIELDED WIRE	1076	82X	SWHSI01	48
SPICE(TWO WIRES),MAKE WITH STAKE-ON PLIERS	2367	82X	SWHSM01	48
SPICE,BEND PARALLEL TO CONDUCTOR WITH PLIERS	95	82X	MTLSB01	46
SPICE,FORM WITH PLIERS,PIGTAIL SPICE	413	82X	MTLSF01	46
SPICE,REMOVE	151	82X	SWHSR01	48
SPOT(OR SEAM),WELD	VARIABLE	81X	SNFWSXX	37
SPOT(OR SEAM),WELD ON SCIAKY STATIONARY WELDING MACHINE	VARIABLE	81X	SNFWSXX	37
SPOT,WELD	68	81X	BPTSW01	38
STAND(PIPE),POSITION UNDER PIPE	331	862	M0HSP01	66
STAPLE,INSTALL IN PIPE COVER	VARIABLE	862	MNFSIXX	64
STARTER(FLUORESCENT),REPLACE IN FIXTURE	144	829	M0HSR01	53
STEP(POLE),DRIVE INTO POLE WITH HAMMER	609	821	STLSD01	51
STUD(AIRLOC),INSTALL,PER STUD	VARIABLE	807	SNFISXX	22
STUD(AIRLOC),REMOVE PIN WITH AIRLOC TOOL	VARIABLE	807	SVFRSXX	24
STUD(CAMLOC),INSTALL WITH CAMLOC PLIERS,NO RETAINING WASHER	VARIABLE	807	SNFSIXX	24
STUD(CAMLOC),REMOVE,NO RETAINING WASHER	VARIABLE	807	SNFSRXX	24
STUD(STRESS HEAD CAMLOC),INSTALL,PER STUD	318	807	SNFSI03	24
STUD,INSTALL WITH POWDER ACTUATED GUN	494	860	STPSI01	61
SWITCH,TURN OFF OR ON,BRANCH LIGHTING CIRCUIT	161	82X	MJPST01	43
TANK,PUT ON HAND TRUCK	355	81X	MJHTP01	38

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OPERATION/ELEMENT DESCRIPTION	THU VALUE	OCCUP-ACTION	DWMSDTP ELEMENT	PAGE
TANK, REMOVE FROM HAND TRUCK	126	81X	M0HTR01	38
TAPE, APPLY TO WIRE SPLICE	443	82X	SNFTA01	44
TENSION, RELEASE ON OXY-ACETYLENE WELDING REGULATOR	119	81X	MJPTRO1	36
THREAD, CUT IN CONDUIT	343	82X	MTLTC01	46
THRATOR CONTROLS(Spot welding machine), SET	129	813	MSUTS01	41
TIE(SPOT), REMOVE	157	82X	SNFTRO1	44
TILE, POSITION AND LEVEL TO ADJOINING TILE	417	861	SCHTP01	63
TIP(ELECTRODE), DETACH FROM SPOTWELDER	104	81X	MJPTD02	36
TIP(ELECTRODE), GRIND	VARIABLE	81X	SJPTGXX	37
TIP(ELECTRODE), INSTALL ON SPOTWELDER	121	81X	MJPTI01	36
TIP(ELECTRODE=GAS), REPLACE	635	811	MJPTRO1	41
TIP(ELECTRODE=WELDER), DRESS	728	81X	MCLTD01	34
TIP(OXY-ACETYLENE TORCH), CHANGE WITH WRENCH	669	81X	SJPTC01	36
TIP(TORCH), DETACH BY HAND	251	81X	MJPTD01	36
TIP, CLEAN WITH EMERY CLOTH WRAPPED AROUND FILE, SPOT WELDER	224	81X	MCLTC03	34
TIP, CLEAN WITH SANDPAPER, WELDING GUN	VARIABLE	81X	MCLTCXX	34
TOOL(AIRLOC), SET UP FOR INSTALLATION OR REMOVAL OF PIN IN AIRLOC STUD	1638	80X	SJPTS01	3
TOOL(PNEUMATIC SQUEEZE), SET UP AND ASIDE, FOR INSTALLATION OF PIN IN AIRLOC STUD	353	80X	SJPTS02	3
TOOL(REAMING), POSITION AND RETURN, TOLEDO 999 PIPE MACHINE OR SIMILAR	252	862	SEMTP01	64
TOOL, CONNECT TO AND DISCONNECT FROM EXTENSION CORD LYING ON FLOOR	578	86X	MTPTC01	59
TOOL, INSERT AND REMOVE, AIR HAMMER	119	81X	MTPTI01	39
TOOLS, PREPARE FOR JO-BOLT INSTALLATION	922	807	MJPTP01	15
TORCH(ACETYLENE), LIGHT WITH FRICTION TYPE IGNITER	67	81X	MJPTL01	36
TORCH(OXY-ACETYLENE), LIGHT AND TURN OFF	349	81X	SJPTL01	37
TORCH(OXY-ACETYLENE-CUTTING), ADJUST FOR CUTTING BEVEL	152	816	MJPTA01	42
TORCH ARM(FLAME CUTTING MACHINE), POSITION FOR BURNING CIRCLES OR STRAIGHT LINES	103	816	MSUTP01	42
TRAMMEL, SET TO SCALE	VARIABLE	809	MJPTSXX	32
TRAMMEL, USE TO SCRIBE 90-DEGREE ARC, ONE OPERATOR, 36-INCH RADIUS	328	809	MTLTU01	33
TROWEL, FILL WITH MORTAR	132	861	MTLTF01	64
TUBING(ELECTRICAL METALLIC), BEND WITH MANUAL BENDER	VARIABLE	82X	STLTBXX	47
TURING, ASSEMBLE TO THREADED FITTINGS(BOTH ENDS OF TUBING)	270	862	MTFTA01	67

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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWMSTDP ELEMENT	PAGE
TUBING,BEND TO MATCH FITTING	167	862	MOHTB01	66
TUBING,BEND WITH TUBING BENDER	VARIABLE	862	MTLTBXX	68
TUBING,CUT OFF WITH HAND CUTTER	VARIABLE	862	MTLTCXX	68
TUBING,FLARE END	1284	862	STLTFO1	69
TUBING,REAM END WITH HAND REAMER	450	862	STLTRO1	69
TUBING,UNROLL FROM COIL	430	862	MOHTU01	67
UNIT(SELF-PROPELLING),ENGAGE AND DISENGAGE, CONCRETE SAW	342	844	MTPUEOL	55
VALVE(ACETYLENE AND OXYGEN),TURN OFF	69	81X	MACVT01	33
VALVE(OXY-ACETYLENE CYLINDER),TURN OFF	321	81X	MJPVT01	36
VALVES(BLOWPIPE OXYGEN AND ACETYLENE),OPEN AND CLOSE	VARIABLE	811	MACVOXX	40
VISE(PIPE),OPEN OR CLOSE AND TIGHTEN	266	862	MVSVO01	69
WASHER(SOLID),INSTALL ON CAMLOC STUD ASSEMBLY	274	807	SNFWI02	25
WASHER(SPLIT),INSTALL ON CAMLOC STUD ASSEMBLY	326	807	SNFWI01	24
WASHER(SPLIT),REMOVE FROM CAMLOC STUD,PER WASHER	140	807	SNFWR01	25
WEDGE,INSTALL TO HOLD DOOR FRAME IN PLACE	251	86X	SNFWI01	57
WEDGE,INSTALL TO RAISE AND LEVEL DOOR FRAME	458	86X	SNFWI02	57
WELD(INERT GAS=ARC),MAKE	VARIABLE	810	SNFWMXX	40
WELD(SPOT),ACCOMPLISH	VARIABLE	81X	SNFWAXX	37
WELD,ACCOMPLISH,ARC WELD,PER INCH	VARIABLE	810	MJFWAXX	40
WELDER(SPOT),PREPARE(ADJUST HEAT)	5206	81X	MJPWP01	36
WHEEL(IFLAME CUTTING MACHINE),REMOVE	155	816	MSUWR01	42
WHEEL,TIGHTEN OR LOOSEN TO ADJUST REAR GUIDE CLAMPS,HEAVY DUTY PIPE MACHINE	418	862	MSUWT01	67
WIRE/WIRE BUNDLE,ROUTE IN AIRCRAFT	1596	825	S+HWR01	53
WIRE,ALIGN FOR FORMING IN ELECTRICAL BOX	70	82X	MJHWA01	44
WIRE,BEND 90 DEGREES FOR FORMING IN ELECTRICAL BOX	VARIABLE	82X	MJHWBXX	45
WIRE,DISCONNECT FROM FISHTAPE AFTER PULLING	192	82X	MTLWD01	46
WIRE,INSERT THROUGH CLIP IN RACEWAY	50	824	MJHWH01	52
WIRE BUNDLE,CLAMP TO BULKHEAD	1274	825	SCPWC01	53
WIRE BUNDLE,COIL AND TIE	VARIABLE	82X	SNFWCXX	44
WIRE BUNDLE,TAPE AND TIE	1838	82X	SNFWT01	44
WIRE BUNDLE,TIE TO TOMBSTONE	1296	825	S+HWT01	53
WRAPPING(PAPER),REMOVE FROM COIL OF WIRE	1611	82X	MJHHW01	45
WRAPPING(PAPER),REMOVE FROM 100-POUND BUNDLE OF ASPHALT	200	853	S+HWR01	55

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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP-ACTION	DWMSTDOP ELEMENT	PAGE
ACCOMPLISH SPOT WELD	VARIABLE	81X	SNFWAXX	37
ACCOMPLISH WELD,ARC WELD,PER INCH	VARIABLE	810	MNFWAXX	40
ADJUST AMPERAGE ON AC OR DC WELDING MACHINE	55	81X	MACAA01	33
ADJUST DIE GAP(DIMPLING MACHINE-COLD)	1121	800	SSUGA01	12
ADJUST FLAME CUTTING SPEED DIAL	65	816	MSUSA01	42
ADJUST FLAME ON HAND TORCH	94	81X	MJPFA01	35
ADJUST FRAME(AND ANCHRS)IN OPENING,METAL DOOR FRAME	296	86X	SOHAF01	58
ADJUST GASKET CUTTER BLADE WITH CLAMPING	411	86X	MTLBA01	58
ADJUST GASKET CUTTER TO SIZE FOR RING GASKET	176	86X	MTLCA01	58
ADJUST HAND PLANE	192	860	MTLPA01	61
ADJUST HEAT CONTROL ON WELDING MACHINE	56	81X	MACCA01	33
ADJUST OXY-ACETYLENE-CUTTING TORCH FOR CUTTING BEVEL	152	816	MJPTA01	42
ADJUST SPEED ON HEAVY DUTY PIPE MACHINE, THREE LEVERS	235	862	MSUSA01	67
ADJUST SPEED ON SELF-PROPELLING UNIT OF CONCRETE SAW	177	844	MTPSA01	54
ADJUST SPOT WELDING MACHINE CYCLE DIALS	187	81X	MSUCA01	38
ALIGN FLANGE JOINT	1757	862	MOMSA01	66
ALIGN FLANGE JOINT WITH PIN	171	862	MOMJA02	65
ALIGN WIRE FOR FORMING IN ELECTRICAL BOX	70	82X	MOMWA01	44
APPLY ADHESIVE TO FLOOR WITH SERRATED TROWEL PER SQUARE FOOT	367	86X	MNFA101	57
APPLY ASPHALT FLCOO COAT FROM FOUR CAN	439	866	MOMAA01	71
APPLY MORTAR ON THREE BRICK LENGTHS; FURROW AND CUT JOINT	244	861	MNFMA02	62
APPLY MORTAR TO ONE END OF BRICK	28	861	MNFMA03	62
APPLY MORTAR TO ONE END AND ONE SIDE OF BRICK	82	861	MNFMA01	62
APPLY SEALANT WITH PNEUMATIC SEALANT GUN	VARIABLE	807	SSRSAXX	26
APPLY SOLDER TO SEAM OR JCINT, SHEET METAL	VARIABLE	814	MNFSAXX	41
APPLY TAPE TO WIRE SPLICE	443	82X	SNFTA01	44
ASSEMBLE ANCHOR TO ROO	7E9	821	MFTA01	50
ASSEMBLE CARTRIDGE TO STUD	111	860	MCHCA01	59
ASSEMBLE METAL DOOR FRAME	1613	86X	SOHFA01	58
ASSEMBLE TUBING TO THREADED FITTINGS (BOTH ENCS OF TUBING)	270	862	MFTFA01	67
ATTACH EXTENSION CHUTE TO TRANSIT MIXER	462	844	SOHCA01	54
ATTACH OXYGEN AND ACETYLENE HOSES TO TORCH TORCH	954	81X	MJPHA01	35
BACK OFF CIE THREADING TOOL,HAND HELD	617	862	MTLCB01	68
BEND CONDUIT WITH HICKEY	VARIABLE	82X	STLCBXX	46

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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP-ATION	DWMSSTOP ELEMENT	PAGE
BEND CONDUIT WITH HYDRAULIC BENDER	VARIABLE	82X	MTPCBXX	47
BEND ELECTRICAL METALLIC TUBING WITH MANUAL BENDER	VARIABLE	82X	STLTBXX	47
BEND SPLICE PARALLEL TO CONDUCTOR WITH PLIERS	95	82X	MTLSB01	46
BEND TUBING TO MATCH FITTING	167	862	MOTB01	66
BEND TUBING WITH TUBING BENDER	VARIABLE	862	MTLTBXX	66
BEND WIRE 90 DEGREES FOR FORMING IN ELECTRICAL BOX	VARIABLE	82X	MGHWBXX	45
BREAK ARC AND MOVE TO NEXT WELD	193	810	M0HAB01	40
BREAK ASPHALT INTO PIECES WITH AXE, 100- POUND BUNDLE	350	853	STLAB01	56
BREAK BRICK WITH TROWEL TO FIT	331	861	MTLBB01	63
CHANGE ARC WELDING MACHINE POLARITY	293	810	MJPPC01	39
CHANGE BELT ON HAND HELD SANDING MACHINE	360	86X	SJPBC01	56
CHANGE CHISEL IN PNEUMATIC HAND CHIPPER	243	8XX	STPCC01	2
CHANGE DIE IN STOCK, HAND THREADING DIE	211	8XX	MJFDC01	1
CHANGE DIE SIZE ON HEAVY DUTY PIPE MACHINE	133	862	MSUSC01	67
CHANGE HELI-ARC WELDING ELECTRODE	VARIABLE	810	SJPECXX	39
CHANGE OXY-ACTYLENE TORCH TIP WITH WRENCH	669	81X	SJPTC01	36
CHANGE POSITION HORIZONTALLY ON POLE	402	821	M8MPC01	48
CHANGE SANDPAPER ON DRUM SANDER	2233	864	SJPSC01	70
CHANGE TUNGSTEN ELECTRODE IN TORCH	350	81X	MJPEC01	35
CHANGE WELDING ROD IN ELECTRODE HOLDER	VARIABLE	81X	MJPPCXX	35
CHANGE WELDING ROD IN ELECTRODE HOLDER	354	810	SJPRC01	39
CHECK DOOR FRAME FOR VERTICAL ALIGNMENT WITH LEVEL	1041	86X	SITFC01	56
CHECK PART FOR WARPAGE WITH 12-INCH SCALE	143	81X	MGMFC01	34
CHIP BRICK OUT WITH CHISEL AND HAMMER, PER CUBIC INCH	190	861	MTLCB01	64
CHIP CONCRETE WITH CHISEL AND HAMMER, SEVEN CUBIC INCHES	3699	844	MTLCC01	54
CHIP SLAG WITH CHIPPING HAMMER, CHISEL AND BRUSH	VARIABLE	81X	MCLSCXX	33
CLAMP WIRE BUNDLE TO BULKHEAD	1274	825	SCPwC01	53
CLEAN HIGH PRESSURE HOLE	62	811	MCLHC02	41
CLEAN LEAD CABLE SHEATHING BY SCRAPING	335	821	MCLSC01	49
CLEAN TIP WITH EMERY CLOTH WRAPPED AROUND FILE, SPOT WELDER	224	81X	MCLTC03	34
CLEAN TIP WITH SANDPAPER, WELDING GUN	VARIABLE	81X	MCLTCXX	34
CLEAN TORCH TIP HOLES	751	811	MCLHC01	40
CLIMB POLE FROM LOWER TO UPPER CROSSARM	666	821	M8MCP02	48
CLIMB POLE TO LOWER CROSSARM, APPROXIMATELY 30 FEET	1513	821	M8MCP01	48

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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DMWSTD ELEMENT	PAGE
CLOSE BLOWPIPE OXYGEN AND ACETYLENE VALVES	VARIABLE	811	MACVOXX	40
COIL WIRE BUNDLE AND TIE	VARIABLE	82X	SNFWCXX	44
CONNECT ELECTRODE HOLDER CABLE TO ARC WELDER	546	81X	MJPCC01	34
CONNECT TERMINAL LUG TO SWITCH	64	82X	MDALC01	43
CRIMP TERMINAL LUG TO WIRE	83	82X	MTLLC01	46
CUT ALUMINUM WITH COMPOUND LEVER SNIPS, PER LINEAR INCH	VARIABLE	80X	STLACXX	6
CUT ALUMINUM WITH DISC,ROUTER OR SIMILAR- MOUNTED IN PNEUMATIC GUN, PROCESS TIME	1591	807	BPTAC01	25
CUT ALUMINUM WITH JEWELER,S OR SKIN SAW,	VARIABLE	807	STLASXX	32
CUT ALUMINUM WITH SAW MOUNTED IN PNEUMATIC GUN STARTS-WITH SAW IN POSITION FOR CUTTING	1985	807	BPTAC02	25
CUT AWAY DAMAGED AREA ALUMINUM ALLOY TO .064INCH THICKNESS,RECTANGULAR AREA	VARIABLE	807	STLCAXX	32
CUT AWAY DAMAGED AREA,ALUMINUM ALLOY TO .064INCH THICKNESS,CIRCULAR AREA	VARIABLE	807	STLACXX	31
CUT BANDING ON REEL OF WIRE,CABLE OR SIMILAR	253	82X	MTLBC01	45
CUT COAXIAL PLUG FROM CABLE	VARIABLE	82X	STLPCXX	47
CUT COLLAR FROM DRAW TYPE SHEAR PIN	VARIABLE	807	SNFCCXX	16
CUT HOLE IN ALUMINUM TO .064 INCH THICKNESS CIRCULAR ACCESS HOLE	VARIABLE	807	SFAHCXX	14
CUT HOLE IN ALUMINUM TO .064 INC. THICKNESS	VARIABLE	807	SFACHXX	13
CUT HOLE IN CARDBOARD CONTAINER WITH KNIFE	85	82X	MTLHC01	45
CUT METAL WITH SNIPS,PER INCH,SHEET METAL	VARIABLE	80X	STLMCXX	7
CUT OFF MORTAR JOINT WITH TROWEL,BOTTOM AND ONE END, THREE BRICKS	246	861	MTLJC01	64
CUT OFF MORTAR JOINT WITH TROWEL,BOTTOM AND ONE END, ONE BRICK	117	861	MTLJC02	64
CUT OFF TUBING WITH HAND CUTTER	VARIABLE	862	MTLTCXX	68
CUT PIPE COVER WITH HACK SAW	VARIABLE	862	MTLCCXX	68
CUT PIPE WITH PIPE CUTTER	3830	862	MTLPC01	68
CUT RIVET PROTRUDING HEAD WITH RIVET GUN AND CHISEL	VARIABLE	800	SNFCRXX	8
CUT ROOFING FELT WITH KNIFE, PER LINEAR FOOT	VARIABLE	866	MTLFCXX	71
CUT SHINGLE WITH SHINGLE CUTTER,ASBESTOS SHINGLE	146	863	MTLSC01	69
CUT THREAD IN CONDUIT	343	82X	MTLTC01	46
CUT, CEMENT BAG OR SIMILAR USING TROWEL	660	861	MTLBC01	63
DESCEND FROM LOWER CROSSARM	5843	821	SEMPD01	49
DETACH ELECTRODE TIP FROM SPOTWELDER	104	81X	MJPTD02	36
DETACH TORCH TIP BY HAND	251	81X	MJPTD01	36

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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWMTSTOP ELEMENT	PAGE
DIMPLE HOLE(COLD AND HOT)	TABLE	800	TEMHOXX	7
DIP FIRE BRICK IN ADHESIVE	VARIABLE	861	MQHBDXX	62
DISCONNECT TOOL FROM EXTENSION CORD LYING FLOOR	578	86X	MTPTC01	55
DISCONNECT WIRE FROM FISHTAPE AFTER PULLING	192	82X	MTLWD01	46
DISENGAGE SELF-PROPELLING UNIT CONCRETE SAW	342	844	MTPUE01	55
DRESS ELECTRODE-WELDER TIP	728	81X	MCLTD01	34
DRILL HOLE WITH SPIRAL DRILL,PER STROKE	23	860	MTLHD01	60
DRILL HOLE WITH SPIRAL DRILL(ONE INCH HOLE)	VARIABLE	860	STLCHXX	61
DRILL RIVET AND REMOVE,COUNTERSUNK CR UNIVERSAL HEAD	VARIABLE	800	SNFRDXX	9
DRIVE PIKE INTO POLE,APPROXIMATELY 20 FEET ABOVE GROUND	- 157	821	MTLPD01	50
DRIVE POLE STEP INTO POLE WITH HAMMER	609	821	STLSD01	51
DRIVE RIVET OUT WITH HAMMER AND PIN PUNCH, 2-MAN OPERATION	VARIABLE	800	SNFORXX	8
DUMP DRY AGGREGATE MIXTURE INTO MIXER FROM EMPTY ASPHALT FROM BUCKET TO "LO-BOY" CART	593	844	MACMD01	54
ENGAGE TO START FLAME CUTTING MACHINE FEED AND TURN OFF	271	866	MOHAE01	71
EXTEND OR RETRACT GUIDE HANDLES,CONCRETE SAW	78	816	MACFE01	41
FABRICATE DOUBLER OR FILLER,FLAT CIRCULAR	273	844	MTPHE01	54
FABRICATE FILLER(OR DOUBLER),FLAT RECTANG- ULAR,TO .064 INCH THICK	VARIABLE	807	SFAOFXX	13
FILL BUCKET WITH HOT ASPHALT FROM KETTLE	132	866	MOHBF01	71
FILL TROWEL WITH MORTAR	1284	861	MTLTF01	64
FLARE TUBING END	VARIABLE	862	STLTF01	69
FORM COLD DIMPLE WITH HAND DIMPLER	178	80X	STLDFXX	12
FORM SPLICE WITH PLIERS,PIGTAIL SPLICE	65	82X	MTLSF01	46
GAUGE HOLE TO DETERMINE RIVET LENGTH	413	80X	MGMMG01	2
GET NAILS FROM BOX	119	860	MOHNG01	59
GET PIPE COVER AND POSITION ON PIPE,LENGTH OF COVER-THREE FEET	VARIABLE	862	MOHCGXX	65
GRIND ELECTRODE TIP	VARIABLE	81X	SJPTGXX	37
GRIND HELI-ARC WELDING ELECTRODE	221	810	MJPEG01	39
HEAT METAL WITH DIMPLING DIE	VARIABLE	800	BPTMHXX	11
HOLD BOARD FOR SAWING	75	860	MJPBM01	59
INSCRIBE LINE,CIRCULAR,USING FINGER AS A GUIDE	TABLE	8XX	TLOLIXX	2
INSERT AND REMOVE AIR HAMMER TOOL	132	81X	MTPTI01	39
INSERT CABLE END IN BOX CONNECTOR	97	824	MOHC101	52
INSERT GASKET BETWEEN FLANGE JOINTS TO TWO- INCH INSIDE DIAMETER	VARIABLE	862	MOHGI01	65

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWNSTD P ELEMENT	PAGE
INSERT LAMP SOCKET IN REFLECTOR FITTING	65	82X	MOAS101	43
INSERT LAMPSOCKET LEADS THROUGH GROMMET	524	824	SDAL101	52
INSERT WIRE THROUGH CLIP IN RACEWAY	50	824	MWHWI01	52
INSPECT RIVET WITH LIGHT AND MIRROR	370	800	SITRI02	7
INSPECT RIVET WITH LIGHT	226	800	SITRI01	7
INSTALL AIRLOC STUD PER STUD	VARIABLE	807	SNFISXX	22
INSTALL ANCHOR AND ROD ASSEMBLY IN HOLE AND	2477	821	MOHAI01	49
INSTALL ANCHOR NUT DRILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE,FIRST NUT,EASY ACCESS	4502	807	SNFNI03	23
INSTALL ANCHOR NUT EASY ACCESS DRILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE, EACH ADDITIONAL NUT	2863	807	SNFNI04	23
INSTALL ANCHOR NUT IN EXISTING HOLES,EASY ACCESS	VARIABLE	807	SNFNIXX	22
INSTALL ANCHOR NUT WITH TWO RIVETS, ADDITIONAL NUT(USE DRILL JIG TO LOCATE ATTACH HOLES)	1448	807	SNFNI06	23
INSTALL ANCHOR NUT WITH TWO RIVETS,FIRST NUT (USE DRILL JIG TO LOCATE ATTACH HOLES)	4039	807	SNFNI05	23
INSTALL ANCHORED FASTENER MISSING FLOATING OR CHANNEL NUT ONLY,ALL TYPES,ADDITIONAL PIECE	454	807	SNFFI02	16
INSTALL ANCHORED FASTENER MISSING	457	807	SNFFI01	16
INSTALL ANCHORED FASTENER NUT PLATE,1-MAN OPERATION,ALL TYPES,ADDITIONAL	3180	807	SNFFI12	19
INSTALL ANCHORED FASTENER NUT PLATE,1-MAN OPERATION,ALL TYPES,FIRST PIECE	5390	807	SNFFI11	19
INSTALL ANCHORED FASTENER CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS; EACH ADDITIONAL THREE NUT LENGTH	2880	807	SNFFI10	18
INSTALL ANCHORED FASTENER CHANNEL NUT ASSEMBLY TO EXISTION HOLES WITH BLIND RIVETS,FIRST OR SINGLE THREE-NUT LENGTH	14970	807	SNFFI09	18
INSTALL ANCHORED FASTENER CHANNEL NUT ASSEMBLY WITH BLIND RIVETS,EACH ADDITIONAL THREE-NUT LENGTH	4530	807	SNFFI08	18
INSTALL ANCHORED FASTENER CHANNEL NUT ASSEMBLY WITH BLIND RIVETS, FIRST OR SINGLE THREE-NUT LENGTH	18850	807	SNFFI07	18
INSTALL ANCHORED FASTENER CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING,2-MAN OPERATION,ADDITIONAL	3250	807	SNFFI06	18
INSTALL ANCHORED FASTENER CAMLOC OR AIRLOC RECEPTACLE,OR DZUS SPRING,2-MAN OPERATION. FIRST PIECE	577C	807	SNFFI05	17
INSTALL ANCHORED FASTENER CAMLOC OR AIRLOC RECEPTACLE,OR DZUS SPRING,1-MAN OPERATION,ADDITIONAL PIECE	1840	807	SNFFI04	17
INSTALL ANCHORED FASTENER CAMLOC OR AIRLOC RECEPTACLE,OR DZUS SPRING,1-MAN OPERATION,FIRST PIECE	3610	807	SNFFI03	17

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP-ATIION	DMSTP ELEMENT	PAGE
INSTALL ANCHORED FASTENER RIV-NUT, ADDITIONAL	550	807	STFFI04	29
INSTALL ANCHORED FASTENER RIV-NUT, FIRST PIECE	610	807	STFFI03	28
INSTALL ANCHORED FASTENER CILL NUT WITH TOOL, ADDITIONAL PIECE	730	807	STFFI02	28
INSTALL ANCHORED FASTENER CILL NUT WITH TOOL, FIRST PIECE	883	807	STFFI01	28
INSTALL ANCHORED FASTENER RIV-NUT, MANUAL MOTIONS ONLY	VARIABLE	807	MTFFIXX	26
INSTALL BAR CLAMP AND REMOVE	VARIABLE	8XX	MCFCIXX	1
INSTALL BIT IN HAND DRILL	173	860	MJPBI02	59
INSTALL BOTTOM BRACE IN METAL DOOR FRAME	876	86X	MNFBIO1	57
INSTALL CAMLOC GROMMET WITH SNAP RING	VARIABLE	807	SNFGIXX	21
INSTALL CAMLOC STUD WITH CAMLOC PLIERS, NO RETAINING WASHER	VARIABLE	807	SNFSIXX	24
INSTALL CENTER BRACE IN METAL DOOR FRAME	380	86X	SNFBI01	57
INSTALL CHANNEL NUT	VARIABLE	807	SNFINXX	22
INSTALL CLAMP ON WIRE BUNDLE AND SECURE TO BULKHEAD	1781	825	SCPCI01	52
INSTALL COAXIAL CABLE SPLICE TO SHIELDED WIRE	1076	82X	SWHSI01	48
INSTALL DEUTSCH DRIVE PIN RIVET, ALL SIZES	VARIABLE	800	SNFRIXX	8
INSTALL DIE IN AND REMOVE FROM DIE STOCK, TWO SETSCREWS SECURING	802	8XX	SJPCIO1	1
INSTALL DRAW TYPE SHEAR PIN	458	807	SNFPIO1	24
INSTALL ELECTRICAL FUSE	VARIABLE	829	MOHFIXX	53
INSTALL ELECTRICAL METER PANEL	72	824	MDAPI01	51
INSTALL ELECTRODE TIP ON SPOTWELDER	121	81X	MJPTI01	36
INSTALL FLUORESCENT LAMP IN LAMP HOLDER	103	824	MDALI01	51
INSTALL GROMMET AND STUD OVER FASTENER USING PNEUMATIC FLGOR DIMPLER	VARIABLE	807	SNFIGXX	22
INSTALL HI-LOK BOLT WITH MANUAL TOOLS	VARIABLE	807	STFBIXX	26
INSTALL HI-LOK BOLT, POWER TOOLS, ADDITIONAL	390	807	STFBIO8	27
INSTALL HI-LOK BOLT, POWER TOOLS, FIRST	473	807	STFBIO7	27
INSTALL HI-LOK COLLAR MANUAL TOOLS	VARIABLE	807	STFCIXX	27
INSTALL HI-SHEAR RIVET ADDITIONAL	466	800	SNFRIO10	10
INSTALL HI-SHEAR RIVET, FIRST	703	800	SNFRIO9	10
INSTALL HI-TORQUE BOLT WITH PNEUMATIC TOOL, FER BOLT	VARIABLE	807	STFIBXX	29
INSTALL HI-TORQUE BOLT WITH HAND TOOLS IN	1535	807	STFIB04	29
INSTALL HI-TORQUE BOLT WITH HAND TOOLS IN UNOBSTRUCTED LOCATION	1069	807	STFIB03	29
INSTALL HIGH STRENGTH FASTENER	VARIABLE	80X	SNFFIXX	4
INSTALL INTERPHONE JACK/PLUG	7306	823	SWHJI01	51

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP-ACTION	DWNSTDTP ELEMENT	PAGE
INSTALL JC-BOLT WITH ARO JC-BOLT GUN MODEL 7 OR SIMILAR	VARIABLE	807	STFJIXX	30
INSTALL JC-BOLT WITH HAND TOOL	VARIABLE	807	STFIJXX	30
INSTALL JC-BOLT WITH PNEUMATIC TOOL	49	807	BPTJI01	25
INSTALL JC-BOLT,DESTRUCTED,USE JC-BOLT SET	631	807	STFJI03	30
INSTALL JUNCTION BOX ON CONDUIT	914	82X	M0H8I01	44
INSTALL NATIONAL-STAR INSIGNIA ON AIRCRAFT	80610	845	SPAI1I01	55
INSTALL RACEWAY BASE SECTION COVER	586	82X	MOACI01	43
INSTALL RESCUE ARROW ON AIRCRAFT	26690	845	SPAAI01	55
INSTALL RIVET	VARIABLE	800	SNFRIXX	9
INSTALL RIVET COLLARED FASTENER E/16-1 1/4 INCH DIAMETER,ADDITIONAL RIVET	335	800	SNFRIO8	9
INSTALL RIVET COLLARED FASTENER 3/16-1 1/4 INCH DIAMETER,FIRST RIVET	683	800	SNFRIO7	9
INSTALL RIVET,BLIND,PULLED,ALL TYPES,EACH ADDITIONAL RIVET	445	800	SNFRI12	10
INSTALL RIVET,BLIND,PULLED,ALL TYPES,FIRST RIVET	525	800	SNFRI11	10
INSTALL RUBBER INSULATOR HOOD ON ENERGIZED LINE	257	821	M0HHI01	50
INSTALL SEALANT CARTRIDGE IN AND REMOVE FROM GUN	1330	807	SJPC101	15
INSTALL SOLDERLESS CONNECTOR SPLIT BOLT TYPE	1411	821	SNFC101	49
INSTALL SOLID WASHER ON CAMLOC STUD ASSEMBLY	274	807	SNFWI02	25
INSTALL SPLIT WASHER ON CAMLOC STUD ASSEMBLY	326	807	SNFWI01	24
INSTALL STAPLE IN PIPE COVER	VARIABLE	862	MNFSIXX	64
INSTALL STRESS HEAD CAMLOC STUD PER STUD	318	807	SNFSI03	24
INSTALL STUD WITH PODER ACTUATED GUN	494	860	STPSI01	61
INSTALL THREADING DIE AND REMOVE,PIPE THREADING MACHINE	500	862	SSUDI01	67
INSTALL WEDGE LOCK	VARIABLE	80X	SNFLIXX	5
INSTALL WEDGE TO HOLD CCCR FRAME IN PLACE	251	86X	SNFWI01	57
INSTALL WEDGE TO RAISE AND LEVEL DOOR FRAME	458	86X	SNFWI02	57
KNOCK OUT RIVET COLLARED FASTENER,ALUMINUM	VARIABLE	800	SNFRKXX	10
KNOCK SCALE FROM WELD WITH HAMMER AND BRUSH	VARIABLE	81X	MCLSKXX	34
LEVEL FOUNDATION PLATE WITH SHIMS	277	860	M0HPM01	60
LIFT ASSEMBLED PARTITION FROM FLLOOR AND POSITION TO MARKS	704	860	M0HPL01	59
LIGHT ACETYLENE TORCH WITH FRICTION TYPE IGNITER	67	81X	MJPTL01	36
LIGHT BLOWPIPE	120	811	MJPBL01	41
LIGHT OXY-ACETYLENE TORCH	349	81X	SJPTL01	37

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP-ATION	DWMSDTP ELEMENT	PAGE
LOAD CAULKING GUN WITH CARTRIDGE	125	86X	MTLGL01	58
LOOSEN CAMLOC FASTENER	VARIABLE	80X	MNFFLXX	3
LOWER DRUM SANDER TO OR RAISE FROM FLOOR	49	864	MTPSL01	70
MAKE CENTER SPLICE	120	82X	MWHSM01	47
MAKE INERT GAS-ARC WELD	VARIABLE	810	SNFWMXX	40
MAKE SPLICE(TWO WIRES)WITH STAKE-ON PLIERS	2367	82X	SWHSM01	48
MARK LINE WITH CHALK LINE	VARIABLE	8XX	MLOLMXX	1
MEASURE DOOR FRAME AND CENTER IN OPENING	922	86X	MITFM01	56
MOVE ASPHALT ON SURFACE FROM WHEELED BUCKET	VARIABLE	866	MOHAMXX	71
MOVE EXTENSION LADDER WEIGHT TO 60 POUNDS	347	8XX	MOHLM01	2
MOVE EXTENSION LADDER,LADDER 20 FEET LONG	440	8XX	MOFLM02	2
MOVE FELT ASIDE FOR ADHESIVE APPLICATION	162	864	MOHFM01	70
MOVE FELT INTO POSITION AFTER ADHESIVE APPLICATION	263	864	MOHFM02	70
NAIL ROOFING FELT WITH ROOFING NAILS PER NAIL	68	866	MNFFN01	71
OBTAIN AND WET BRICK PREPARATORY TO INSTALLATION	169	861	MOHB001	62
OBTAIN CEMENT BAG AND OPEN	429	861	SOHB001	63
OBTAIN CLOTH FROM ROLL	288	862	MOHC001	65
OBTAIN GASKET CUTTER FROM CASE AND PUT AWAY	256	86X	MOHC001	57
OBTAIN LAMPWICK AND WRAP ON THREADS OF PIPE	823	862	MOHL001	65
OBTAIN SANDING BLOCK AND ATTACH SANDPAPER	112	86X	MJPBC01	56
OPEN KNOB ON ACETYLENE TORCH TIP	93	81X	MACK001	33
OPEN OR CLOSE FUSED CUTOUT ON POLE WITH DISCONNECT STICK	202	821	MCHCC01	49
OPEN POWDER ACTUATED GUN	99	860	MTPGC01	61
OPEN VISE(PIPE)	266	862	MVSV001	69
PLACE FIRE BRICK AND TAP INTO POSITION	280	861	MOHEP01	62
PLACE FLAME CUTTING MACHINE ON RING	91	816	MSUMP01	42
PLACE GLASS IN WINDOW FOR FINAL INSTALLATION	138	865	MOHGP02	70
PLACE LEAF ON TERMINAL AND CLOSE WITH PLIERS	96	82X	MTLLP01	46
PLACE PLUG/RECEPTACLE IN PLASTIC BAG	1393	82X	SOHPP01	45
PLACE RADIUS BAR IN FLAME CUTTING MACHINE	145	816	MSUBP01	42
PLACE RUBBER HOSE ON ENERGIZED LINE	324	821	MOHMP01	50
POINT MORTAR JOINT,HORIZONTAL AND	208	861	MTLJP01	64
POSITION ASBESTOS SHINGLE TO WALL	208	863	MOHSP01	69
POSITION BIT(AND ERASE)FOR DRILLING AND REMOVE	69	860	MTLB001	60
POSITION BLOWPIPE TO METAL	45	811	MOHBP01	41
POSITION DIE TO PIPE AND START FIRST THREAD, HAND-HELD PIPE DIE	116	862	MTLDP01	68

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP-ACTION	DWNSTDP ELEMENT	PAGE
POSITION ELECTRODE AND STRIKE ARC	53	810	MNFEP01	40
POSITION FLAME CUTTING MACHINE TORCH ARM FOR BURNING CIRCLES OR STRAIGHT LINES	103	816	MSUTP01	42
POSITION FOUNDATION PLATE TO BOLTS SET IN CONCRETE	441	860	M0HPP01	60
POSITION NAIL AND START TO DRIVE WITH HAMMER	59	860	MTLNP01	60
POSITION PIECES TO ASSEMBLE PITTSBURGH LOCK SEAM	VARIABLE	804	M0HPPXX	12
POSITION PIPE AND ENGAGE THREADS(PIPE)	194	862	NTFPP01	67
POSITION PIPE IN THREADING MACHINE CHUCK AND REMOVE TO FOUR FOOT LENGTH	359	862	M0HPP03	66
POSITION PIPE IN THREADING MACHINE AND	442	862	M0HPP02	66
POSITION PIPE IN THREADING MACHINE AND REMOVE, TO FCUR-FOOT LENGTH	264	862	M0HPP01	66
POSITION PIPE STAND UNDER PIPE	331	862	M0HSP01	66
POSITION PNEUMATIC HAMMER FOR DRILLING AND REMOVE AFTER DRILLING	272	844	MTPHP01	54
POSITION POWDER ACTUATED GUN AND FIRE ONE BOLT OR STUD	221	860	MTPGP01	61
POSITION REAMING TOOL AND RETURN,TOLEDO 999 PIPE MACHINE OR SIMILAR	252	862	SEMTP01	64
POSITION RING(FLAME CUTTING MACHINE) ON PLATE TO BURN CIRCLES	128	816	MSURP01	42
POSITION SPIRAL DRILL TO MARK AND REMOVE	37	860	MTLDP01	60
POSITION THREADING DIE TO PIPE AND RETRACT, TOLEDO MODEL 999 OR SIMILAR PIPE MACHINE	253	862	MSUDP01	67
POSITION TILE AND LEVEL TO ADJOINING TILE	417	861	S0HTP01	63
POUR GROUT AND WORK INTO CRACKS OF FLOOR TILE, PER SQUARE FOOT	333	861	S0HGP01	63
PREPARE ANCHORED FASTENER HOLE AND INSTALL	VARIABLE	807	SNFFPXX	20
PREPARE OILER FOR FILLING	167	82X	MJP0P01	43
PREPARE SPOT WELDER,ADJUST HEAT	5206	81X	MJPWP01	36
PREPARE TOOLS FOR JO BOLT INSTALLATION	922	807	MJPTP01	15
PULL RAM ARM TO FREE ANVIL,HYDRAULIC CONDUIT SENDER	108	82X	MTPAP01	47
PUMP PRESSURE IN BLOW TORCH TANK	280	814	SJPPP01	41
PUNCH HOLE WITH PORTABLE PUNCH	VARIABLE	8XX	MTLHPXX	2
PUNCH SHINGLE HOLE WITH MANUAL PUNCH ASBESTOS SHINGLE	VARIABLE	863	MTLSPXX	69
PUT ON RUBBER LINEMAN'S SLEEVES	546	821	MJPSP01	49
PUT TANK ON HAND TRUCK	355	81X	M0HTP01	38
PUT TOOL POUCH AROUND WAIST WITH STRAP AND REMOVE	363	8XX	SJPPP01	1
RAISE EQUIPMENT ON POLE WITH HANLINE	359	821	M0HER01	50
RAISE OBJECT WITH MANUALLY OPERATED HOIST, AVERAGE 28-FOOT HEIGHT	886	86X	MMMOR01	57

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP-ATION	DWNSTOP ELEMENT	PAGE
RAISE WELDING SHIELD	76	81X	MJPSR01	36
READJUST REGULATOR TWO TANKS	83	81X	MJPRR01	35
REAM END CONDUIT ONE INCH DIAMETER, HAND REAMER	175	82X	NTLCR01	45
REAM HOLE WITH HAND REAMER	VARIABLE	80X	MTLHXXX	6
REAM TUBING END WITH HAND REAMER	450	862	STLTR01	69
RELEASE TENSION ON OX -ACETYLENE WELDING REGULATOR	119	81X	MJPTR01	36
REMOVE AIRLOC STUC PIN WITH AIRLOC TOOL	VARIABLE	807	SNFRSXX	24
REMOVE ANCHORED FASTENER WORN OR STRIPPED FLOATING OR CHANNEL NUT ONLY	VARIABLE	807	SNFRFXX	24
REMOVE ANCHORED FASTENER CILL NUT	VARIABLE	807	STFFRXX	29
REMOVE BELTING FROM LEAD SHEATHED CABLE	283	821	MOHBR01	49
REMOVE BIT FROM BRACE	234	860	MJPBI01	59
REMOVE BIT FROM SPIRAL DRILL	102	860	MJPBI03	59
REMOVE BLINC FASTENER,DEUTSCH CRIVE PIN RIVET	VARIABLE	800	SNFFRXX	8
REMOVE BROKEN SHINGLE FROM WALL,ASBESTOS SHINGLE	485	863	MOHSR01	69
REMOVE BURNING GOGGLES	110	81X	MJPGP01	35
REMOVE CAMLOC-GROMMET SECURED WITH SNAP RING	VARIABLE	807	SNFGRXX	21
REMOVE CAMLOC STUD NO RETAINING WASHER	VARIABLE	807	SNFSRXX	24
REMOVE CLAMP FROM BULKHEAD	1026	825	SCPCR02	53
REMOVE DENT FROM ALUMINUM TO .064INCH THICKNESS;PER SQUARE INCH	VARIABLE	807	STLDRXX	32
REMOVE ECP CLAMP FROM WIRE BUNDLE	1173	825	SCPCR01	52
REMOVE ELECTRICAL METER PANEL	42	824	MDAPR01	52
REMOVE EMPTY BUCKET FROM HOIST AND ATTACH FULL BUCKET AT GROUND LEVEL	198	866	MOHBR01	71
REMOVE FILLER AND CUT,LEAD SHEATHED CABLE	95	821	MOHFR01	50
REMOVE FLAME CUTTING MACHINE WHEEL	155	816	MSUWR01	42
REMOVE GASKET FROM CUTTING BOARD AND ASIDE SCRAP	245	86X	MOHGR01	58
REMOVE GLASS FROM WINDOW FOR TRIAL INSTALLATION	98	865	MCHGP01	70
REMOVE GROMMET AND STUC(CZUS FASTENR)MANUAL	VARIABLE	807	MNFGRXX	15
REMOVE HI-LOK BOLT MANUAL TOOLS	VARIABLE	807	STFBRXX	27
REMOVE HI-LCK COLLAR MANUAL TOOLS	VARIABLE	807	STFCRXX	28
REMOVE INTERPHONE JACK/PLUG	2376	823	SWHJR01	51
REMOVE JO-BELT	VARIABLE	807	STFBJXX	31
REMOVE JO-BCLT	VARIABLE	807	STFJRX	30
REMOVE LAMINATION ONE LAYER FROM SHIMSTOCK, TO TWO INCHES WIDE AND SIX INCHES LONG	VARIABLE	80X	STLLRXX	6

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP-ACTION	CWMSTDP ELEMENT	PAGE
REMOVE NAIL WITH HAMMER	VARIABLE	860	STLNRXX	61
REMOVE PAPER BACKING FROM TILE FIELD:13"X26"	574	861	SCHBRO1	63
REMOVE PAPER FROM CONDUCTOR AFTER OUTER INSULATION HAS BEEN STRIPPED	90	82X	MOWPR01	44
REMOVE PAPER WRAPPING FROM COIL OF WIRE	1611	82X	MOWHR01	45
REMOVE PAPER WRAPPING FROM 100-POUND BUNDLE OF ASPHALT	200	853	SCHWR01	55
REMOVE RIVET:SOLID,DRIVEN	VARIABLE	800	SNFRRXX	11
REMOVE SLAG WITH CHIPPING HAMMER	VARIABLE	81X	MCLSRXX	34
REMOVE SPLICE	151	82X	SWHRS01	48
REMOVE SPLIT WASHER FROM CAMLOC STUD,PER WASHER	140	807	SNFWR01	25
REMOVE SPOT TIE	157	82X	SNFTRO1	44
REMOVE TANK FROM HAND TRUCK	126	81X	MOHTR01	38
REMOVE WEDGE LOCK WITH PNEUMATIC TOOL	231	80X	SNFLR01	6
REMOVE WELDING SHIELD	173	81X	MJPSP01	35
REPLACE ANCHORED FASTENER	VARIABLE	807	SNFFRXX	21
REPLACE BULB WITH BULB CHANGER	VARIABLE	829	STLBRXX	54
REPLACE ELECTRODE-GAS TIP	635	811	MJPTRO1	41
REPLACE FLUORESCENT STARTER IN FIXTURE	144	829	MOHSR01	53
REPLACE HIGH STRENGTH FASTENERS	VARIABLE	80X	SNFFRXX	6
REPOSITION MICKEY ON CONDUIT	134	82X	MTLHR01	45
REVERSE RATCHET ON THREADING TOOL	54	8XX	MTLRR01	2
ROTATE POLE WITH CANT HOOK	415	821	MTLFR01	50
ROUTE WIRE/WIRE BUNDLE IN AIRCRAFT	1596	825	SWHWR01	53
SAW BOARD IN MITER BOX	VARIABLE	860	MTLBSXX	60
SCRAPE SPATTER PER INCH OF WELD	30	81X	MCLSS01	34
SCREED MORTAR SETTING BED PER TWO SQUARE FEET	357	861	MTLBS01	63
SEAT TURNLOCK FASTENER AND TIGHTEN	VARIABLE	80X	SNFFSXX	5
SET HUCK LOCK BOLT WITH PULL TYPE GUN	50	807	BPTBS01	25
SET RIBET WITH PNEUMATIC GUN PROCESS TIME ONLY	257	800	BPTRS01	11
SET SPOT WELDING MACHINE THYRATRON CONTROLS	129	813	MSUTS01	41
SET TRAMMEL TO SCALE	VARIABLE	809	MJPTSXX	32
SET UP AIRLOC TOOL FOR INSTALLATION OR REMOVAL OF PIN IN AIRLOC STUD	1638	80X	SJPTS01	3
SET UP ARC WELDING MACHINE	303	810	MJFMS01	39
SET UP DIMPLE MACHINE(COLD)	3359	800	SSUDS01	11
SET UP HOT DIMPLE MACHINE	4624	800	SSUMS01	12
SET UP PNEUMATIC SQUEEZE TOOL AND ASIDE,FOR INSTALLATION OF PIN IN AIRLOC STUD	353	80X	SJPTS02	3

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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP-ATION	DWNSTOP ELEMENT	PAGE
SET UP RIVET GUN,CHANGE RIVET SET	173	800	SJPGS02	7
SET UP RIVET GUN,INITIAL	424	800	SJPGS01	7
SET UP WELDING MACHINE-SCIARY OR SIMILAR AND TEST WELD ONE TWO INCH SEAM	3461	81X	SSUNS02	39
SET UP WELDING MACHINE,SCIAKY OR SIMILAR AND TEST WELD THREE SPOTS	3995	81X	SSUNS01	38
SMOOTH CLOTH AFTER WRAPPING AROUND PIPE	134	862	M0MCS01	65
SMOOTH MORTAR SETTING BED PRIOR TO LEVELING, PER FOUR SQUARE FEET	591	861	M0HBS01	62
SPLIT RIVET COLLAR WITH PNEUMATIC RIVET GUN, PROCESS TIME ONLY.	153	807	SPTCS01	25
SPRAY PAINT ON AIRCRAFT SURFACE,PER TEN SQUARE FEET	VARIABLE	845	M0APSXX	55
SPREAD GRAVEL WITH SHOVEL,PER SHOVELFUL	261	866	MTLGS01	72
SPREAD HOT BITUMINOUS MIX WITH RAKE,PER SQUARE YARD	776	853	MTLMS01	55
START NAIL IN SCARD	VARIABLE	860	MTLNSXX	61
STRIKE LINE WITH CHALK LINE	281	860	MTLLS01	60
STRIKE, MORTAR JOINT VERTICAL AND HORIZONTAL ONE BLOCK,WITH TROWEL	195	861	MTLJS01	64
TAKE OFF WELDERS JACKET	435	81X	M0JPJP01	35
TAP BRICK INTO POSITION FOR TIE-IN	673	861	M0HBT02	63
TAP JAMB FIRE BRICK INTO POSITION ON OUTSIDE CORNER	475	861	M0HET01	62
TAPE WIRE BUNDLE AND TIE	1838	82X	SNFWT01	44
TIE WIRE BUNDLE TO TOMBSTONE	1296	825	SMHWNT01	53
TIGHTEN CAMLOC FASTENER	VARIABLE	80X	MNFFTXX	3
TIGHTEN OR LOOSEN PRELIMINARY JOINT FLANGE	VARIABLE	862	MTLJTXX	68
TIGHTEN OR LOOSEN WHEEL TO ADJUST REAR GUIDE CLAMPS, HEAVY CUTY PIPE MACHINE	418	862	MSUWT01	67
TURN ON ACETYLENE AND OXYGEN VALVE	69	81X	MACVT01	33
TURN OFF OXY-ACETYLENE CYLINDER VALVE	321	81X	MJPVT01	36
TURN OFF WELDING MACHINE	74	81X	MACHT01	33
TURN ON BRANCH LIGHTING CIRCUIT SWITCH	161	82X	MJPST01	43
TURN ON GAS,LIGHT,AND TURN OFF,GAS BURNER FOR HEATING SOLDERING IRON OR SIMILAR	130	8XX	MJPGT01	1
UNLOCK PORTABLE SCAFFOLD WHEELS	992	86X	MACSL01	56
UNLOCK TURNLOCK FASTENER	VARIABLE	80X	SNFUXX	5
UNROLL ROOFING FELT 15 FEET	352	86X	M0HFU01	57
UNROLL TUBING FROM COIL	430	862	M0HTU01	67
UNWRAP ELECTRICAL FISHTAPE FROM AND WRAP ON	VARIABLE	82X	MJPFUXX	43
USE DIVIDERS TO SCRIBE 90-DEGREE ARC	152	809	MTLDU01	33
USE ELECTRICAL FISHTAPE,DISENGAGE TWO TAPES	48	82X	MTLFU02	45

DEFENSE WORK MEASUREMENT STANDARD TIME DATA
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OPERATION/ELEMENT DESCRIPTION	TMU VALUE	OCCUP- ATION	DWMSDTP ELEMENT	PAGE
USE ELECTRICAL FISHTAPE, FEED INTO CIRCUIT	68	82X	MTLFU01	45
USE HOLE FINDER, LEAF TYPE	VARIABLE	80X	MTLFUXX	6
USE PLUMB BOB	538	86X	MTLB01	58
USE RULE TO MEASURE	317	8XX	MGMRU01	1
USE TRAMMEL TO SCRIBE 90-DEGREE ARC, ONE OPERATOR, 36-INCH RADIALS	328	809	MTLTU01	33
WELD SPOT	68	81X	BPTSW01	38
WELD SPOT OR SEAM	VARIABLE	81X	SNFSWXX	37
WELD SPOT (OR SEAM) ON SCIAKY STATIONARY WELDING MACHINE	VARIABLE	81X	SNFWSXX	37
WRAP FITTING WITH CHICKEN OR SIMILAR WIRE	310	862	MOHFW01	65

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VOLUME VIII

DEFENSE WORK MEASUREMENT STANDARD TIME DATA PROGRAM
(DWMSTDP)

PART TWO - STRUCTURAL WORK OCCUPATIONS STANDARD TIME DATA
SECTION II - DWMSTDP ELEMENT LISTING

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NO	8XX	MAO	LFAIR	MCPCLIXX VARIABLE		CLAMP(BAR), INSTALL AND REMOVE STARTS-WITH REACH TO BAR CLAMP INCLUDES-ALL MOTIONS NECESSARY TO GET BAR CLAMP FROM BENCH, POSITION CLAMP TO PART AND CLOSE CLAMP ON PART; REACH TO CLAMP, OPEN CLAMP, MOVE CLAMP FROM PART AND ASIDE CLAMP TO BENCH ENDS-WITH RELEASE CLAMP CASE 01 INSTALL BAR CLAMP 02 REMOVE BAR CLAMP
NF	8XX	MAF	778	MGMHU01	317	RULE, USE TO MEASURE STARTS-WITH RULE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO STOOP AND PLACE RULE TO FIRST REFERENCE POINT, ARISE, WALK TWO PACES TO OTHER END OF RULE, STOOP AND PLACE RULE TO SECOND REFERENCE POINT, READ RULE, PICK UP RULE, AND ARISE ENDS-WITH OPERATOR STANDING ERECT WITH RULE IN HAND CONDITIONS-APPLICABLE TO MEASUREMENTS GREATER THAN ONE BUT LESS THAN TWO FULL LENGTHS OF RULE. TIME TO UNFOLD AND FOLD RULE NOT INCLUDED
NF	8XX	MAF	3529	MJPDC01	211	DIE, CHANGE IN STOCK, HAND THREADING DIE STARTS-WITH DIE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO RELEASE RATCHET, REMOVE AND ASIDE DIE, GET DIE, POSITION IN STOCK, AND ENGAGE RATCHET ENDS-WITH DIE IN HAND
NF	8XX	MAF	2398/99	MJPGT01	130	GAS, TURN ON, LIGHT, AND TURN OFF, GAS BURNER FOR HEATING SOLDERING IRON OR SIMILAR STARTS-WITH REACH TO LIGHTER INCLUDES-ALL MOTIONS NECESSARY TO GET LIGHTER, LIGHT BURNER WHILE TURNING VALVE TO START GAS FLOW, AND ASIDE LIGHTER; AND TURN VALVE CLOSED TO EXTINGUISH FLAME ENDS-WITH RELEASE OF VALVE
FFE	8XX	MAA	GTLDRA6	SJPPD101	802	DIE, INSTALL IN AND REMOVE FROM DIE STOCK, TWO SETSCREWS SECURING STARTS-WITH GET DIE STOCK INCLUDES-ALL MOTIONS NECESSARY TO LOOSEN TWO SETSCREWS TWO THREADS EACH BY HAND, GET DIE, PLACE DIE IN STOCK, TURN TWO SETSCREWS IN TWO THREADS EACH BY HAND, GET SCREWDRIVER, TIGHTEN TWO SETSCREWS, ASIDE SCREWDRIVER; GET DIE STOCK, GET SCREWDRIVER, LOOSEN TWO SETSCREWS, ASIDE SCREWDRIVER, AND INVERT DIE STOCK TO REMOVE DIE ENDS-WITH ASIDE DIE AND DIE STOCK
NF	8XX	MAF	3897	SJPPP01	363	POUCH(TOOL), PUT AROUND WAIST WITH STRAP AND REMOVE STARTS-WITH REACH TO POUCH INCLUDES-ALL MOTIONS NECESSARY TO GET POUCH, MOVE POUCH TO HIP, MOVE STRAP AROUND WAIST, FASTEN BUCKLE, AND PASS END OF STRAP THROUGH GUARD; AND REACH TO STRAP, UNBUCKLE, REMOVE FROM WAIST, WRAP STRAP AROUND POUCH, AND ASIDE POUCH ENDS-WITH RELEASE OF POUCH
AE	8XX	MAW	SDCEAXX	MLOLMXX VARIABLE		LINE, MARK WITH CHALK LINE STARTS-WITH LINE IN RIGHT HAND, LEFT HAND REACH TO LINE INCLUDES-ALL MOTIONS NECESSARY TO POSITION STRING TO DESIRED LOCATION, HOLD STRING TAUT AND STRIKE LINE AND MOVE STRING AWAY ENDS-WITH STRING IN HANDS CONDITIONS-APPLICABLE TO MARKING FOR DECAL INSTALLATION OR SIMILAR CASE 01 MARK ONE-FOOT GUIDE LINE 02 MARK THREE-FOOT GUIDE LINE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	8XX	MAA	AMRGSSXX	TLCOLIXX	TABLE	LINE,INSCRIBE,CIRCULAR,USING FINGER AS A GUIDE STARTS-WITH GET MARKING DEVICE INCLUDES-ALL MOTIONS NECESSARY TO GET PART AND POSITION FOR MARKING,POSITION FINGER TO EDGE OF PART,AND DRAW CIRCLE USING THE FINGER RESTING ON EDGE OF PART AS GUIDE ENDS-WITH ASIDE PART,MARKING DEVICE IN HAND
						DIAMETER OF CIRCLE (INCHES) 2-6 6-12 A B
						FIRST CIRCLE A 659 1157 ADDITIONAL B 527 1025 CIRCLE
NF	8XX	MAF	2372	MOHLM01	347	LADDER(EXTENSION),MOVE,WEIGHT TO 60 POUNDS STARTS-WITH REACH TO LADDER INCLUDES-ALL MOTIONS NECESSARY TO TILT LADDER FORWARD,LIFT LADDER,SIDESTEP WITH LADDER FIVE FEET,SET LADDER DOWN,LEAN LADDER AGAINST SUPPORTING SURFACE,AND MOVE LADDER TO ADJUST ANGLE ENDS-WITH RELEASE OF LADDER
NF	8XX	MAF	4106	MOHLM02	440	LADDER(EXTENSION),MOVE,LADDER 20 FEET LONG STARTS-WITH REACH TO LADDER INCLUDES-ALL MOTIONS NECESSARY TO STAND LADDER UPRIGHT,LIFT LADDER,CARRY ONE PACE TO NEW LOCATION,SET LADDER DOWN,AND POSITION AT LOCATION ENDS-WITH RELEASE OF LADDER CONDITIONS-LADDER WEIGHS TO 75 POUNDS.FOR EACH ADDITIONAL PACE LADDER IS CARRIED ADD ONE OCCURRENCE OF U BBM WJ 01
AF	8XX	MAA	5144RAD	MTLHPXX	VARIABLE	HOLE,PUNCH WITH PORTABLE PUNCH STARTS-WITH PUNCH IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO GET THE MATERIAL TO BE PUNCHED,MOVE PUNCH TO MATERIAL AND POSITION,MOVE PUNCH AGAINST MATERIAL,RELEASE MATERIAL WITH LEFT HAND(RIGHT HOLDING PUNCH),GRASP PUNCH WITH LEFT HAND,MOVE PUNCH HANDLE TO PUNCH HOLE,OPEN PUNCH,RELEASE PUNCH WITH LEFT HAND ENDS-WITH PUNCH HELD BY RIGHT HAND CASE 01 PUNCH FIRST OR ONLY HOLE 02 PUNCH EACH ADDITIONAL HOLE
NF	8XX	MAF	3530	MTLRR01	54	RATCHET,REVERSE ON THREADING TOOL STARTS-WITH REACH TO RATCHET RELEASE PIN INCLUDES-ALL MOTIONS NECESSARY TO DISENGAGE PIN AND TURN TO REVERSE RATCHET ON HAND THREADING TOOL ENDS-WITH RELEASE OF PIN
NF	8XX	MAF	1315	STPCC01	243	CHISEL,CHANGE IN PNEUMATIC HAND CHIPPER STARTS-WITH REACH TO CHIPPER TO HOLD INCLUDES-ALL MOTIONS NECESSARY TO GET CHISEL WITH OTHER HAND,REMOVE AND ASIDE CHISEL,GET CHISEL,AND INSERT IN CHIPPER ENDS-WITH CHIPPER IN HAND CONDITIONS-APPLICABLE TO PNEUMATIC HAND CHIPPER,ELECTRIC HAND HAMMER,OR SIMILAR
FFD	80X	MAA	KSMGH01	MGMHG01	178	HOLE,GAUGE TO DETERMINE RIVET LENGTH STARTS-WITH GET GAUGE INCLUDES-ALL MOTIONS NECESSARY TO POSITION GAUGE TO HOLE,SLIDE GAUGE BAR TO SURFACE,AND READ GAUGE ENDS-WITH ASIDE GAUGE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	BOX	MAA	AMRQN43	SJPTSO1	1638	<p>TOOL(AIRLOC),SET UP FOR INSTALLATION OR REMOVAL OF PIN IN AIRLOC STUD</p> <p>STARTS=WITH GET AIRLOC TOOL</p> <p>INCLUDES=ALL MOTIONS NECESSARY TO PLACE TOOL IN VISE,OPEN HANDLE,GET SCREWDRIVER,REMOVE SCREW,ASIDE SCREW AND SCREWDRIVER,REMOVE THREADED SPACER,LIFT TURN BAR FROM HANDLE,LIFT BAR AND GUIDE PIN FROM SPRING,REVERSE BAR, POSITION BAR IN HANDLE,ENGAGE GUIDE PIN TO SPRING,INSTALL THREADED SPACER,GET SCREWDRIVER,INSTALL SCREW,ASIDE SCREWDRIVER AND REMOVE TOOL FROM VISE</p> <p>ENDS=WITH ASIDE TOOL</p>
NAA	BOX	MAA	AMRQN44	SJPTSO2	353	<p>TOOL(PNEUMATIC SQUEEZE),SET UP AND ASIDE,FOR INSTALLATION OF PIN IN AIRLOC STUD</p> <p>STARTS=WITH GET PNEUMATIC SQUEEZE</p> <p>INCLUDES=ALL MOTIONS NECESSARY TO GET FLUSH SQUEEZE SET,GET SLOTTED SQUEEZE SET,INSTALL SLOTTED SQUEEZE SET,INSTALL FLUSH SQUEEZE SET; AND REMOVE FLUSH SQUEEZE SET,REMOVE SLOTTED SQUEEZE SET,AND ASIDE BOTH SETS</p> <p>ENDS=WITH ASIDE PNEUMATIC SQUEEZE</p>
NAA	BOX	MAA	OTFCHXX	MNFFLXX VARIABLE	402 320	<p>FASTENER(CAMLOC),LOOSEN</p> <p>STARTS=WITH GET SCREWDRIVER</p> <p>INCLUDES=ALL MOTIONS NECESSARY TO POSITION SCREWDRIVER TO FASTENER STUD,TURN STUD 90 DEGREES TO UNLOCK,AND TURN STUD 1.5-3 REVOLUTIONS TO UNFASTEN</p> <p>ENDS=WITH ASIDE SCREWDRIVER</p> <p>CONDITIONS=APPLICABLE TO CAMLOC HIGH STRESS PANEL FASTENER</p> <p>CASE 01 FIRST OR SINGLE FASTENER 02 EACH ADDITIONAL FASTENER IN A SERIES</p>
NAA	BOX	MAA	OTFCHXX	MNFFTXX VARIABLE	435 366	<p>FASTENER(CAMLOC),TIGHTEN</p> <p>STARTS=WITH GET SCREWDRIVER</p> <p>INCLUDES=ALL MOTIONS NECESSARY TO POSITION SCREWDRIVER TO FASTENER STUD,TURN STUD COUNTERCLOCKWISE TO ALIGN,PUSH IN TO SEAT STUD,TURN STUD 90 DEGREES TO LOCK,AND TURN STUD 1.5-3 REVOLUTIONS TO TIGHTEN TO RECEPTACLE</p> <p>ENDS=WITH ASIDE SCREWDRIVER</p> <p>CONDITIONS=APPLICABLE TO CAMLOC HIGH STRESS PANEL FASTENER</p> <p>CASE 01 FIRST OR SINGLE FASTENER 02 EACH ADDITIONAL FASTENER IN A SERIES</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE	DWMSTDP	TMU	OPERATION/ELEMENT DESCRIPTION
NAA	80X	M8A	AMRHDX	SNFFIXX	VARIABLE	
						FASTENER(HIGH STRENGTH), INSTALL STARTS-WITH GET TOOLS TO DRILL HOLE INCLUDES-ALL MOTIONS NECESSARY TO LOCATE HOLE, DRILL HOLE, RECESS HOLE, DEBURR HOLE, CHAMFER HOLE FOR PROPER FIT, AND INSTALL FASTENER ENDS-WITH FASTENER INSTALLED CONDITIONS-APPLICABLE TO ALL SIZE HUCK STUMP TYPE SHEAR PINS, HIGH SHEAR RIVETS, OR SIMILAR, IN HOLES WITH INTERFERENCE FIT(CASES 01-08). APPLICABLE TO HUCK PULL TYPE SHEAR PINS OR SIMILAR TO 3/8 INCH DIAMETER, ALL LENGTHS, AND TO HUCK GUN MODELS 200, 352, OR SIMILAR(CASES 09-12). APPLICABLE TO HI-LOK FASTENERS TO 9/16 INCH DIAMETER(CASES 13-16). ALL CASES APPLICABLE TO ALUMINUM .020-.250 INCH THICKNESS OR STAINLESS STEEL .020-.050 INCH THICKNESS. INCLUDES SETUP OF TOOLS.
	8900					CASE 01 FIRST HI-SHEAR FLUSH RIVET, 1-MAN OPERATION
	1770					02 EACH ADDITIONAL HI-SHEAR FLUSH RIVET, 1-MAN OPERATION
	10330					03 FIRST HI-SHEAR FLUSH RIVET, 2-MAN OPERATION
	2320					04 EACH ADDITIONAL HI-SHEAR FLUSH RIVET, 2-MAN OPERATION
	5510					05 FIRST HI-SHEAR FLAT HEAD RIVET, 1-MAN OPERATION
	1530					06 EACH ADDITIONAL HI-SHEAR FLAT HEAD RIVET, 1-MAN OPERATION
	6940					07 FIRST HI-SHEAR FLAT HEAD RIVET, 2-MAN OPERATION
	2080					08 EACH ADDITIONAL HI-SHEAR FLAT HEAD RIVET, 2-MAN OPERATION
	7160					09 FIRST FLUSH HUCK LOCK FASTENER
	1510					10 EACH ADDITIONAL FLUSH HUCK LOCK FASTENER
	4270					11 FIRST UNIVERSAL HUCK LOCK FASTENER
	1340					12 EACH ADDITIONAL UNIVERSAL HUCK LOCK FASTENER
	8020					13 FIRST FLUSH HI-LOK FASTENER
	2070					14 EACH ADDITIONAL FLUSH HI-LOK FASTENER
	5130					15 FIRST UNIVERSAL HI-LOK FASTENER
	1900					16 EACH ADDITIONAL UNIVERSAL HI-LOK FASTENER

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	80X	MBA	AMRHRXX	SNFFRXX VARIABLE	<p>FASTENERS(HIGH STRENGTH), REPLACE STARTS-WITH REACH TO TOOL OR AIR HOSE INCLUDES-ALL MOTIONS NECESSARY TO REMOVE AND INSTALL HIGH STRENGTH FASTENER AS DESCRIBED IN EACH CASE</p> <p>ENDS-WITH ASIDE TOOL OR AIR HOSE</p> <p>CONDITIONS-CASES 01 THRU 08 APPLY TO ALL SIZES HUCK STUMP TYPE SHEAR PINS, HI-SHEAR RIVETS OR SIMILAR IN INTERFERENCE FIT HOLES. CASES 09 AND 10 APPLY TO HUCK PULL TYPE SHEAR PINS OR SIMILAR TO 3/8 INCH DIAMETER, ALL LENGTHS AND HUCK GUN MODEL 352,200 OR SIMILAR. FASTENER INSTALLED IN EXISTING HOLE.</p>
				3580	CASE 01 REMOVE AND INSTALL HI-SHEAR FLUSH HEAD RIVET, 1-MAN OPERATION, FIRST FASTENER
				1070	02 REMOVE AND INSTALL HI-SHEAR FLUSH HEAD RIVET, 1-MAN OPERATION, ADDITIONAL FASTENER
				3080	03 REMOVE AND INSTALL HI-SHEAR FLAT HEAD RIVET, 1-MAN OPERATION, FIRST FASTENER
				1000	04 REMOVE AND INSTALL HI-SHEAR FLAT HEAD RIVET, 1-MAN OPERATION, ADDITIONAL FASTENER
				5010	05 REMOVE AND INSTALL HI-SHEAR FLUSH HEAD RIVET, 2-MAN OPERATION, FIRST FASTENER
				1620	06 REMOVE AND INSTALL HI-SHEAR FLUSH HEAD RIVET, 2-MAN OPERATION, ADDITIONAL FASTENER
				4510	07 REMOVE AND INSTALL HI-SHEAR FLAT HEAD RIVET, 2-MAN OPERATION, FIRST FASTENER
				1550	08 REMOVE AND INSTALL HI-SHEAR FLAT HEAD RIVET, 2-MAN OPERATION, ADDITIONAL FASTENER
				1410	09 REMOVE AND INSTALL HUCK LOCK PIN AND COLLAR, FLUSH OR UNIVERSAL, FIRST FASTENER
				900	10 REMOVE AND INSTALL HUCK LOCK PIN AND COLLAR, FLUSH OR UNIVERSAL, ADDITIONAL FASTENER
NAA	80X	MAA	ONFFTXX	SNFFSXX VARIABLE	<p>FASTENER(TURNLOCK), SEAT AND TIGHTEN</p> <p>STARTS-WITH GET TOOL</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO POSITION TOOL TO SLOT IN FASTENER, ALIGN FASTENER, SEAT FASTENER, AND TURN FASTENER TO LOCK</p> <p>ENDS-WITH ASIDE TOOL</p> <p>CONDITIONS-APPLICABLE TO DZUS, CAMLOC, AIRLOC OR SIMILAR FASTENERS TO 3/8 INCH DIAMETER TURNED APPROXIMATELY 90 DEGREES TO LOCK</p>
				140	CASE 01 FIRST FASTENER
				87	02 EACH ADDITIONAL FASTENER
NAA	80X	MAA	ONFFTXX	SNFFUXX VARIABLE	<p>FASTENER(TURNLOCK), UNLOCK</p> <p>STARTS-WITH GET TOOL</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO POSITION TOOL TO SLOT AND TURN FASTENER TO UNLOCK</p> <p>ENDS-WITH ASIDE TOOL</p> <p>CONDITIONS-APPLICABLE TO DZUS, CAMLOC, AIRLOC, OR SIMILAR FASTENERS TO 3/8 INCH DIAMETER TURNED APPROXIMATELY 90 DEGREES TO UNLOCK</p>
				114	CASE 01 FIRST FASTENER
				61	02 EACH ADDITIONAL FASTENER
FFD	80X	MAA	KALSAXX	SNFLIXX VARIABLE	<p>LOCK(WEDGE). INSTALL</p> <p>STARTS-WITH GET WEDGE LOCK</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO PUSH STEM DOWN, PLACE LOCK IN HOLE, GET TOOL AND PLACE ON LOCK, AND SECURE LOCK</p> <p>ENDS-WITH ASIDE TOOL</p>
				335	CASE 01 FIRST WEDGE LOCK
				186	02 EACH ADDITIONAL WEDGE LOCK(DOES NOT INCLUDE GET LOCK OR GET/ASIDE TOOL)

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFE	80X	M8A	KALSDFS	SNFLR01	231	<p>LOCK(WEDGE), REMOVE WITH PNEUMATIC TOOL STARTS=WITH GET PNEUMATIC TOOL INCLUDES=ALL MOTIONS NECESSARY TO PLACE TOOL ON WEDGE LOCK, RELEASE LOCK, ASIDE TOOL, AND REMOVE WEDGE LOCK ENDS=WITH ASIDE WEDGE LOCK CONDITIONS=DOES NOT INCLUDE TIME TO SET UP PNEUMATIC TOOL</p>
FFD	80X	MAA	KSMHFXX	MTLFUXX VARIABLE	302 172	<p>FINDER(HOLE). USE, LEAF TYPE STARTS=WITH GET HOLE FINDER INCLUDES=ALL MOTIONS NECESSARY TO SPREAD LEAVES, PLACE FINDER ON METAL, ENGAGE PEG IN HOLE, HOLD GUIDE FOR DRILLING, AND REMOVE FINDER FROM HOLE ENDS=WITH ASIDE HOLE FINDER CONDITIONS=TIME FOR DRILLING NOT INCLUDED CASE 01 FIRST HOLE 02 EACH ADDITIONAL HOLE</p>
NAA	80X	MAA	SHRHMXX	MTLHRXX VARIABLE	752 1139 1744	<p>HOLE, REAM WITH HAND REAMER STARTS=WITH REAMER IN HAND INCLUDES=ALL MOTIONS NECESSARY TO MOVE REAMER TO HOLE, POSITION, REAM HOLE, AND REMOVE REAMER FROM HOLE ENDS=WITH REAMER IN HAND CONDITIONS=.003 INCH STOCK REMOVAL FROM HOLE ONE INCH DEEP IN ALUMINUM CASE 01 HOLE TO 3/8 INCH DIAMETER 02 HOLE 3/8-3/4 INCH DIAMETER 03 HOLE 3/4-1 1/2 INCHES DIAMETER</p>
NAA	80X	MUA	AMRMMXX	STLACXX VARIABLE	166. 106 220 160 284 224 402 342	<p>ALUMINUM, CUT WITH COMPOUND LEVER SNIPS, PER LINEAR INCH STARTS=WITH GET SNIPS INCLUDES=ALL MOTIONS NECESSARY TO POSITION SNIPS TO CUT POINT AND CUT ONE LINEAR INCH ENDS=WITH ASIDE SNIPS CONDITIONS="ADDITIONAL INCH" CASES DO NOT INCLUDE GET AND ASIDE SNIPS. APPLICABLE TO CURVED, CIRCULAR OR STRAIGHT CUTS IN 24S, 75S, OR SIMILAR ALUMINUM CASE 01 FIRST LINEAR INCH, ROUGH CUT, MATERIAL .001-.032 INCH THICKNESS 02 EACH ADDITIONAL LINEAR INCH, ROUGH CUT, MATERIAL .001-.032 INCH THICKNESS 03 FIRST LINEAR INCH, ROUGH CUT, MATERIAL .033-.052 INCH THICKNESS 04 EACH ADDITIONAL LINEAR INCH, ROUGH CUT, MATERIAL .033-.052 INCH THICKNESS 05 FIRST LINEAR INCH, FINISH CUT, MATERIAL .001-.032 INCH THICKNESS 06 EACH ADDITIONAL LINEAR INCH, FINISH CUT, MATERIAL .001-.032 INCH THICKNESS 07 FIRST LINEAR INCH, FINISH CUT, MATERIAL .033-.052 INCH THICKNESS 08 EACH ADDITIONAL LINEAR INCH, FINISH CUT, MATERIAL .033-.052 INCH THICKNESS</p>
NAA	80X	MAA	SMRSRXX	STLLRXX VARIABLE	841 132	<p>LAMINATION, REMOVE ONE LAYER FROM SHIMSTOCK, TO TWO INCHES WIDE AND SIX INCHES LONG STARTS=WITH GET SHIMSTOCK INCLUDES=ALL MOTIONS NECESSARY TO GET KNIFE, PULL UP CORNER OF LAMINATION, ASIDE KNIFE, GET NEEDLE NOSE PLIERS, PULL LAMINATION FROM STOCK, AND ASIDE STOCK AND LAMINATION ENDS=WITH ASIDE PLIERS CASE 01 REMOVE FIRST SIX LINEAR INCHES FROM SHIMSTOCK 02 REMOVE ADDITIONAL SIX LINEAR INCHES</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY CODE	SOURCE ELEMENT	DWMTSTOP TMU VALUE	OPERATION/ELEMENT DESCRIPTION				
VF	80X	MAF	2340	STLMCXX VARIABLE 165 88	METAL,CUT WITH SNIPS,PER INCH,SHEET METAL STARTS=WITH REACH TO SNIPS INCLUDES=ALL MOTIONS NECESSARY TO MOVE SNIPS TO METAL,CUT ONE LINEAR INCH,AND ASIDE SNIPS ENDS=WITH RELEASE OF SNIPS CASE 01 FIRST INCH 02 EACH ADDITIONAL INCH				
FFD	800	MAA	KSMDCXX	TEMHOXX TABLE	HOLE,DIMPLE(COLD AND HOT) STARTS=WITH OBJECT TO BE DIMPLED IN HAND INCLUDES=ALL THE MOTIONS NECESSARY TO MOVE OBJECT TO DIE PEG,POSITION ON PEG,MOVE LEG TO OPEN AND CLOSE RAM,REMOVE OBJECT FROM DIE PEG ENDS=WITH OBJECT DISENGAGED FROM DIE PEG CONDITIONS=TIMES ARE PER HOLE DIMPLED(COLD)= ADD TIME FROM ELEMENT 800 BPTMHXX TO OBTAIN TIME FOR HOT DIMPLE(ONE OCCURENCE PER HOLE)				
					SPACE BETWEEN HOLES				
					WEIGHT OF OBJECT POUNDS	TO 1 INCH A	1 TO 3 INCHES B	3 TO 9 INCHES C	
					TO 2.5	A	67	70	75
					2.5 TO 10	B	71	74	79
					10 TO 20	C	77	80	85
					20 TO 30	D	82	85	90
					30 TO 40	E	88	91	96
FFE	800	MAA	KSMI01	SITRIO1 226	RIVET,INSPECT WITH LIGHT STARTS=WITH GET LIGHT INCLUDES=ALL MOTIONS NECESSARY TO TURN LIGHT ON,INSPECT HEAD OF RIVET,MOVE LIGHT,INSPECT TAIL OF RIVET,AND TURN LIGHT OFF ENDS=WITH ASIDE LIGHT CONDITIONS=BODY MOTIONS REQUIRED TO GET IN POSITION FOR INSPECTION NOT INCLUDED				
FFE	800	MAA	KSMI02	SITRIO2 370	RIVET,INSPECT WITH LIGHT AND MIRROR STARTS=WITH GET INSPECTION LIGHT INCLUDES=ALL MOTIONS NECESSARY TO GET MIRROR, TURN LIGHT ON,PLACE MIRROR AND ADJUST ANGLE, INSPECT ONE END OF RIVET,MOVE LIGHT,INSPECT OTHER END OF RIVET,ASIDE MIRROR,AND TURN LIGHT OFF ENDS=WITH ASIDE INSPECTION LIGHT CONDITIONS=MIRROR REQUIRED TO INSPECT ONLY ONE END OF RIVET.BODY MOTIONS REQUIRED TO GET IN POSITION FOR INSPECTION NOT INCLUDED.				
FFE	800	MAA	KALSS20	SJPGS01 424	GUN(RIVET),SET UP,INITIAL STARTS=WITH GET RIVET GUN INCLUDES=ALL MOTIONS NECESSARY TO GET AIR HOSE,ATTACH TO GUN,GET RIVET SET,MOVE SPRING ASIDE,INSTALL SET IN GUN;AND REMOVE AND ASIDE SET,DISCONNECT AIR HOSE,AND ASIDE AIR HOSE ENDS=WITH ASIDE GUN				
FFE	800	MAA	KALSS20	SJPGS02 173	GUN(RIVET),SET UP,CHANGE RIVET SET STARTS=WITH RIVET GUN IN HAND INCLUDES=ALL MOTIONS NECESSARY TO MOVE SPRING ASIDE,REMOVE AND ASIDE RIVET SET,GET RIVET SET,MOVE SPRING ASIDE,AND INSTALL RIVET SET ENDS=WITH RELEASE OF SET,GUN IN HAND				

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	800	MAA	AMRRXXX	SNFCRXX VARIABLE		RIVET,CUT PROTRUDING HEAD WITH RIVET GUN AND CHISEL STARTS=WITH GET RIVET GUN INCLUDES=ALL MOTIONS NECESSARY TO GET CHISEL, INSERT IN GUN,GET AND INSTALL SPRING,POSITION CHISEL TO RIVET HEAD,CUT RIVET,AND REMOVE AND ASIDE SPRING AND CHISEL ENDS=WITH ASIDE RIVET GUN CONDITIONS="EACH ADDITIONAL" CASES INCLUDE POSITION CHISEL AND CUT RIVET ONLY 580 CASE 01 FIRST RIVET=ALUMINUM TO 3/16 INCH DIAMETER,OR STEEL OR MONEL TO 1/8 INCH DIAMETER 39 02 EACH ADDITIONAL RIVET=ALUMINUM TJ 3/16 INCH DIAMETER,OR STEEL OR MONEL TO 1/8 INCH DIAMETER 613 03 FIRST MONEL OR STEEL RIVET 5/32-3/16 INCH DIAMETER,OR SCREW OR BOLT TQ NO.10 69 04 EACH ADDITIONAL MONEL OR STEEL RIVET 5/32-3/16 INCH DIAMETER,OR SCREW OR BOLT TO NO.10
NAA	800	MAA	AMRRXXX	SNFORXX VARIABLE		RIVET,DRIVE OUT WITH HAMMER AND PIN PUNCH,2-MAN OPERATION STARTS=WITH GET HAMMER INCLUDES=ALL MOTIONS NECESSARY TO GET PIN PUNCH,POSITION TO RIVET SHANK,GET BACKUP BAR, POSITION TO SIDE OF RIVET,AND DRIVE RIVET OUT WITH THREE HAMMER BLOWS ENDS=WITH ASIDE TOOLS CONDITIONS=TIME VALUES SHOWN ARE TOTALS FOR TWO OPERATORS.APPLICABLE TO DRIVING RIVETS OUT IN ACCESSIBLE AREAS WHERE USE OF A BACKUP BAR IS NECESSARY. 528 CASE 01 FIRST RIVET 248 02 EACH ADDITIONAL RIVET
NAA	800	MUA	AMRBRXX	SNFFRXX VARIABLE		FASTENER(BLIND),REMOVE,DEUTSCH DRIVE PIN RIVET STARTS=WITH GET HAMMER INCLUDES=ALL MOTIONS NECESSARY TO GET CENTER PUNCH,PUNCH RIVET STEM FOR DRILLING,ASIDE HAMMER AND PUNCH,GET DRILL MOTOR,GET AND INSTALL DRILL,DRILL STEM(PARTIAL),ASIDE DRILL, GET TAP HANDLE,GET AND INSTALL TAP IN HANDLE, TAP STEM,REMOVE TAP FROM HANDLE,ASIDE TAP AND HANDLE,GET DRILL,DRILL PIN,REMOVE DRILL FROM CHUCK,ASIDE DRILL AND DRILL MOTOR,GET ALLEN HEAD SCREW WITH HEX NUT INSTALLED,TURN HEX NUT UP SCREW,GET SPACER,POSITION ON SCREW,INSTALL SCREW IN TAPPED PIN,HOLD SCREW WITH ALLEN WRENCH,TIGHTEN HEX NUT AGAINST SPACER TO REMOVE PIN,PLACE PIN IN VISE,REMOVE SCREW FROM PIN,AND ASIDE TOOLS ENDS=WITH ASIDE TOOLS 10400 CASE 01 FIRST FASTENER 9640 02 EACH ADDITIONAL FASTENER(DOES NOT INCLUDE SET UP OF DRILL OR TAP)
NAA	800	MAA	AMRBNX	SNFIRXX VARIABLE		RIVET(DEUTSCH DRIVE PIN),INSTALL,ALL SIZES STARTS=WITH GET RIVET INCLUDES=ALL MOTIONS NECESSARY TO POSITION RIVET IN HOLE,GET HAMMER,GET HOLLOW PUNCH, POSITION PUNCH OVER RIVET STEM,DRIVE RIVET HEAD FLUSH WITH SURFACE,ASIDE HAMMER AND PUNCH,GET RIVET GUN,GET AND INSTALL FLUSH RIVET SET,GET AND INSTALL SPRING,POSITION GUN TO DRIVE PIN,DRIVE PIN WITH RIVET GUN,REMOVE SPRING,REMOVE SET,AND ASIDE SPRING AND SET ENDS=WITH ASIDE RIVET GUN 860 CASE 01 FIRST RIVET 210 02 EACH ADDITIONAL RIVET IN A SERIES(DOES NOT INCLUDE GET,SET UP,OR ASIDE TOOLS)

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	800	MAA	KALSDXX	SNFRDXX	VARIABLE	RIVET,DRILL AND REMOVE,COUNTERSUNK OR UNIVERSAL HEAD STARTS-WITH GET DRILL,DRILL BIT PREVIOUSLY INSTALLED INCLUDES-ALL MOTIONS NECESSARY TO PLACE DRILL TO RIVET HEAD,DRILL RIVET,ASIDE DRILL,GET PUNCH,GET HAMMER,PLACE PUNCH TO RIVET SHANK, AND DRIVE RIVET FROM HOLE ENDS-WITH ASIDE TOOLS CASE 01 FIRST ALUMINUM RIVET TO 3/16 INCH DIAMETER
				556		02 EACH ADDITIONAL ALUMINUM RIVET TO 3/16 INCH DIAMETER(NO GET/ASIDE TOOLS)
				351		03 FIRST ALUMINUM RIVET 5/16 INCH DIAMETER OR LARGER(TIME TO DRILL PILOT HOLE ALLOWED,BUT NO TIME TO CHANGE DRILL BIT)
				756		04 EACH ADDITIONAL ALUMINUM RIVET 5/16 INCH DIAMETER OR LARGER(NO GET/ASIDE TOOLS)
				471		05 FIRST STEEL RIVET 3/32-3/16 IN DIAMETER
				1112		06 EACH ADDITIONAL STEEL RIVET 3/32-3/16 INCH DIAMETER(NO GET/ASIDE TOOLS)
				907		
FFD	800	MAA	KALSAXX	SNFRIXX	VARIABLE	RIVET,INSTALL STARTS-WITH GET RIVET GUN AND RIVET(S) INCLUDES-ALL MOTIONS NECESSARY TO PLACE RIVET IN HOLE,PLACE GUN TO RIVET,AND DRIVE RIVET ENDS-WITH ASIDE GUN CONDITIONS-TIME TO SET UP RIVET GUN NOT INCLUDED CASE 01 FIRST ALUMINUM RIVET TO 1/4 INCH DIAMETER(ONE OPERATOR-NO BUCKING BAR)
				219		02 EACH ADDITIONAL ALUMINUM RIVET TO 1/4 INCH DIAMETER(ONE OPERATOR)
				144		03 FIRST ALUMINUM RIVET 5/16 INCH OR LARGER DIAMETER(TIME SHOWN IS FOR TWO OPERATORS.USE OF BUCKING BAR REQUIRED)
				1026		04 EACH ADDITIONAL ALUMINUM RIVET 5/16 INCH OR LARGER DIAMETER(TWO OPERATORS.BUCKING BAR REQUIRED)
				876		05 FIRST STEEL RIVET TO 3/16 INCH DIAMETER(TIME SHOWN IS FOR TWO OPERATORS.USE OF BUCKING BAR REQUIRED)
				446		06 EACH ADDITIONAL STEEL RIVET TO 3/16 INCH DIAMETER(TWO OPERATORS.USE BUCKING BAR)
				296		
FFD	800	MAA	KALSAC1	SNFR107	683	RIVET,INSTALL,COLLARED FASTENER,3/16-1/4 INCH DIAMETER,FIRST RIVET STARTS-WITH GET FASTENER(S) INCLUDES-ALL MOTIONS NECESSARY TO PLACE PIN IN HOLE,GET HAMMER,SEAT PIN,ASIDE HAMMER,GET COLLAR,PLACE ON PIN,GET BUCKING BAR,PLACE TO RIVET,GET AND POSITION GUN,SECURE COLLAR ON PIN,AND ASIDE GUN ENDS-WITH ASIDE BUCKING BAR CONDITIONS-NO TIME ALLOWED FOR SETUP OF GUN
FFD	800	MAA	KALSAC2	SNFR108	335	RIVET,INSTALL,COLLARED FASTENER 3/16-1/4 INCH DIAMETER,ADDITIONAL RIVET STARTS-WITH FASTENER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PLACE PIN IN HOLE,SEAT PIN WITH HAMMER,PLACE COLLAR ON PIN,PLACE BUCKING BAR TO PIN,POSITION GUN TO PIN,AND SECURE COLLAR ENDS-WITH GUN AND BUCKING BAR IN HAND CONDITIONS-NO TIME INCLUDED TO GET/ASIDE FASTENER AND TCOLS

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	800	MAA	KSMRIH1	SNFR109	703	RIVET(HI-SHEAR), INSTALL, FIRST STARTS-WITH GET RIVET INCLUDES-ALL MOTIONS NECESSARY TO POSITION RIVET IN HOLE, GET HAMMER, SEAT RIVET, ASIDE HAMMER, PLACE COLLAR ON RIVET, GET BUCKING BAR, POSITION TO RIVET, GET RIVET GUN, POSITION ON RIVET, DRIVE RIVET, AND ASIDE GUN ENDS-WITH ASIDE BUCKING BAR CONDITIONS-APPLICABLE TO COLLARED STEEL RIVET 3/32-3/16 INCH DIAMETER. NO TIME ALLOWED FOR SETUP OF RIVET GUN
FFD	800	MAA	KSMRIH2	SNFR110	466	RIVET(HI-SHEAR), INSTALL, ADDITIONAL STARTS-WITH REGRASP OF RIVET IN HAND INCLUDES-ALL MOTIONS NECESSARY TO POSITION RIVET IN HOLE, STRIKE RIVET WITH HAMMER TO SEAT, REGRASP COLLAR, PLACE ON RIVET, POSITION GUN TO RIVET, POSITION BUCKING BAR AND DRIVE RIVET ENDS-WITH RIVET INSTALLED CONDITIONS-DOES NOT INCLUDE GET AND/OR ASIDE RIVET, COLLAR, HAMMER, GUN, AND BUCKING BAR. APPLICABLE TO COLLARED STEEL RIVET 3/32-3/16 INCH DIAMETER
FFD	800	MAA	KALSAB1	SNFR111	525	RIVET, INSTALL, BLIND, PULLED, ALL TYPES, FIRST RIVET STARTS-WITH GET RIVET GUN AND RIVETS(S) INCLUDES-ALL MOTIONS NECESSARY TO PLACE RIVET IN GUN, MOVE RIVET TO HOLE, DRIVE RIVET, ASIDE GUN, GET CUTTERS, CUT STEM OF RIVET, ASIDE CUTTERS, GET FILE, AND FILE BURR OFF RIVET STEM ENDS-WITH ASIDE FILE CONDITIONS-NO TIME ALLOWED FOR SETUP OF RIVET GUN
FFD	800	MAA	KALSAB2	SNFR112	445	RIVET, INSTALL, BLIND, PULLED, ALL TYPES, EACH ADDITIONAL RIVET STARTS-WITH RIVET AND RIVET GUN IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PLACE RIVET IN GUN, PLACE RIVET IN HOLE, DRIVE RIVET, ASIDE GUN, GET CUTTERS, CUT STEM OF RIVET, ASIDE CUTTERS, GET FILE AND REMOVE BURR ENDS-WITH ASIDE FILE CONDITIONS-NO TIME INCLUDED TO GET/ASIDE FASTENER AND TOOLS
FFD	800	MAA	KALSOXX	SNFRKXX VARIABLE	593 348	RIVET, KNOCK OUT, COLLARED FASTENER, ALUMINUM STARTS-WITH GET GUN WITH KNOCKER ATTACHED INCLUDES-ALL MOTIONS NECESSARY TO PLACE KNOCKER TO COLLAR, REMOVE COLLAR, ASIDE GUN, GET HAMMER, DRIVE FASTENER FLUSH WITH SURFACE, GET PUNCH, AND DRIVE FASTENER FROM HOLE ENDS-WITH ASIDE TOOLS CONDITIONS-APPLICABLE TO HI-SHEAR RIVETS, HI-LOCK FASTENERS, AND STUMP BOLTS CASE 01 FIRST COLLARED FASTENER 02 EACH ADDITIONAL COLLARED FASTENER(DOES NOT INCLUDE GET/ASIDE TOOLS)

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	800	MUA	ONFROXX	SNFRXXX	VARIABLE	RIVET, REMOVE, SOLID, DRIVEN STARTS-WITH GET TOOL(S) INCLUDES-ALL MOTIONS NECESSARY TO SET UP TOOL(S), CUT RIVET HEAD OR TAIL, ASIDE CUTTING TOOL, GET TOOLS, AND PUNCH OUT RIVET ENDS-WITH ASIDE TOOL(S) CONDITIONS-APPLICABLE TO ALUMINUM OR MONEL RIVET 1/8-3/16 INCH DIAMETER CASE 01 FIRST RIVET, CUT WITH HAMMER AND CHISEL AND DRIVE RIVET OUT WITH HAMMER AND PUNCH 02 EACH ADDITIONAL RIVET USING HAMMER, CHISEL AND PUNCH 03 FIRST RIVET, CUT WITH POWER CHISEL AND DRIVE RIVET OUT WITH HAMMER AND PUNCH 04 EACH ADDITIONAL RIVET USING POWER CHISEL, HAMMER, AND PUNCH 05 FIRST RIVET, CUT WITH POWER CHISEL AND DRIVE RIVET OUT WITH POWER DRIFT 06 EACH ADDITIONAL RIVET USING POWER CHISEL AND POWER DRIFT
FFD	800	TAA	KSMTPD1	BPTMHXX	VARIABLE	METAL, HEAT WITH DIMPLING DIE STARTS-WITH MALE AND FEMALE DIES IN CONTACT WITH METAL INCLUDES-ALL THE PROCESS TIME NECESSARY TO HEAT METAL ENOUGH TO DIMPLE WITHOUT CRACKING EDGES OF DIMPLE ENDS-WHEN HEAT IS TURNED OFF CONDITIONS-MAGNESIUM AND TITANIUM USED CASE 01 METAL .031 INCH THICK 02 METAL .050 INCH THICK 03 METAL .064 INCH THICK 04 METAL .100 INCH THICK 05 METAL ANY THICKNESS-.031 TO .100 INCH(AVERAGE OF TIMES)
FFD	800	TAA	KSMTPRI	BPTRS01	257	RIVET, SET WITH PNEUMATIC GUN, PROCESS TIME ONLY STARTS-WITH ACTUATION OF RIVET GUN SWITCH INCLUDES-ALL THE TIME NECESSARY TO SET ONE RIVET ENDS-WITH RELEASE OF SWITCH CONDITIONS-APPLICABLE TO COLLARED STEEL RIVET 3/32-3/16 INCH DIAMETER
FFD	800	MAA	KSMJPD1	SSUDS01	3359	DIMPLE MACHINE, SET UP(COLD) STARTS-WITH REACH TO GET ALLEN WRENCH INCLUDES-ALL THE MOTIONS NECESSARY TO GET ALLEN WRENCH AND MALE DIE, LOOSEN AND RUN OUT DIE SET SCREW, REMOVE DIE FROM MACHINE AND ASIDE DIE TO RACK, GET FEMALE DIE, LOOSEN AND RUN OUT SET SCREW, REMOVE AND ASIDE DIE TO RACK, GET PROPER DIE FROM RACK, PLACE IN MACHINE AND RUN IN AND TIGHTEN SET SCREW(MALE AND FEMALE DIE), ACTUATE RAM CLOSED, CHECK DIES FOR GAP, ACTUATE RAM OPEN, GET WRENCH AND LOOSEN RAM ADJUST NUT, ACTUATE RAM CLOSED, ADJUST GAP, OPEN DIMPLING RAM, GET AND PLACE SCRAP METAL OVER DIE, CLOSE AND OPEN DIMPLING RAM, REMOVE AND ASIDE SCRAP, GET RIVET AND PLACE IN DIMPLE HOLE, CHECK FOR PROPER SETTING, ASIDE RIVET, MAKE FINE ADJUSTMENTS ON DIE GAP, ASIDE WRENCH, GET WRENCH, RUN DOWN AND TIGHTEN JAM NUT, ASIDE WRENCH ENDS-WITH ASIDE WRENCH CONDITIONS-TIME IS ALLOWED FOR CHANGING DIES TO HOLE SIZE AND ADJUSTING FOR METAL THICKNESS

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ACTION	QUALITY SOURCE	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	800	MAA	KSMJPD2	SSUGA01	1121	GAP(DIE),ADJUST(DIMPING MACHINE-COLD) STARTS-WITH REACH TO GET WRENCH INCLUDES-ALL THE MOTIONS NECESSARY TO GET WRENCH AND LOOSEN DIE ADJUSTMENT JAM NUT, CLOSE DIMPLING RAM,ADJUST TO PROPER GAP,OPEN DIMPLING RAM,GET METAL SCRAP AND PLACE OVER MALE DIE,CLOSE RAM,OPEN RAM,REMOVE SCRAP FROM DIE AND ASIDE,GET RIVET AND PLACE IN RIVET HOLE,CHECK FOR PROPER SETTING,MAKE FINE ADJUSTMENTS TO DIE GAP,ASIDE RIVET AND WRENCH, GET WRENCH AND RUN DOWN AND TIGHTEN JAM NUT ENDS-WITH ASIDE WRENCH CONDITIONS-THIS ELEMENT COVERS DIE GAP SETTING ONLY
FFF	800	MAA	KSMJPD3	SSUMS01	4624	MACHINE(HOT DIMPLE),SET UP STARTS-WITH REACH TO GET WRENCH INCLUDES-ALL THE MOTIONS NECESSARY TO GET ALLEN WRENCH,LOOSEN HEATER RETAINING SCREW, REMOVE HEATER FROM DIE,SET UP DIMPLE MACHINE, GET AND PLACE HEATER ON DIE,RUN IN AND TIGHTEN CONTROL,ASIDE WRENCH,TURN HEATER ON AND JFF ENDS-WITH TURN HEATER OFF CONDITIONS-ELEMENT INCLUDES TIME TO CHANGE AND ADJUST DIE SET,REMOVE AND INSTALL HEATER DUR- ING PROCESS-USUALLY USED WHEN HOLE SIZE IN MACHINE IS NOT CORRECT FOR JOB-SEE ELEMENT 800 SSUDS01 FOR SET UP DIMPLE MACHINE
NAA	800	MAA	OTLDCXX	STLDFXX VARIABLE		DIMPLE(COLD),FORM WITH HAND DIMPLER STARTS-WITH REACH TO VISE HANDLE INCLUDES-ALL MOTIONS NECESSARY TO OPEN VISE, GET MALE DIE,PLACE IN VISE,CLOSE VISE,GET PART,POSITION PART TO MALE DIE,GET FEMALE DIE, POSITION DIE TO PART,GET HAMMER,STRIKE FEMALE DIE FOUR BLOWS WITH HAMMER,PALM HAMMER AND DIE,ASIDE PART,ASIDE DIE AND HAMMER,OPEN VISE, REMOVE AND ASIDE MALE DIE,AND CLOSE VISE ENDS-WITH RELEASE OF VISE HANDLE CONDITIONS-APPLICABLE TO USE OF 3/32"-1/4" DIMPLE IN .016"-.064" STAINLESS STEEL, .025"-.051" 24S-0-T3-T4,.025"-.064" 52S,DR .025"-.064" 61S-0-T4 804 CASE 01 FIRST OR SINGLE DIMPLE IN PART TO ONE SQUARE FOOT AREA(ONE OPERATOR) 201 02 EACH ADDITIONAL DIMPLE IN PART TO ONE SQUARE FOOT(ONE OPERATOR) 1356 03 FIRST OR SINGLE DIMPLE IN PART ONE TO NINE SQUARE FEET(TIME SHOWN IS FOR TWO OPERATORS) 308 04 EACH ADDITIONAL DIMPLE IN PART ONE TO NINE SQUARE FEET(TIME SHOWN IS FOR TWO OPERATORS)
NF	804	MAF	3337/38	MOHPPXX VARIABLE		PIECES,POSITION TO ASSEMBLE PITTSBURGH LOCK SEAM STARTS-WITH SIMO REACH TO PIECES INCLUDES-ALL MOTIONS NECESSARY TO BRING PIECES TOGETHER,ALIGN,CHECK VISUALLY,AND STRIKE WITH HAND TO ASSEMBLE SEAM ENDS-WITH HAND IN CONTACT WITH SEAM CASE 01 SMALL PIECES,TOTAL WEIGHT TO 10 POUNDS ENW 91 102 02 LARGE PIECES,TOTAL WEIGHT 10-60 POUNDS ENW

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY CODE	SOURCE	DWMSDTP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRDFXX	SFACHXX	VARIABLE	HOLE,CUT IN ALUMINUM TO .064 INCH THICKNESS. RECTANGULAR ACCESS HOLE STARTS-WITH GET MEASURING DEVICE INCLUDES-ALL MOTIONS NECESSARY TO GET MARKING INSTRUMENT, LAY OUT HOLE, MEASURE AND MARK FOR RADIUS PUNCH, CENTER PUNCH FOR RADIUS, SET UP AND PUNCH OUT CORNER RADIUS WITH TURRET PUNCH. CUT HOLE WITH PEXTO SHEAR, PLACE MATERIAL IN VISE, AND DEBURR WITH FILE AND EMERY CLOTH ENDS-WITH ACCESS HOLE CUT CONDITIONS-APPLICABLE TO CUTTING ALUMINUM MATERIAL SUCH AS DOUBLER OR FILLER CASE 01 CUT HOLE, PERIMETER TO 16 INCHES 02 CUT HOLE, PERIMETER 16-28 INCHES 03 CUT HOLE, PERIMETER 28-40 INCHES 04 CUT HOLE, PERIMETER 40-52 INCHES
NAA	807	MUA	AMRDFXX	SFAADFXX	VARIABLE	DOUBLER(OR FILLER), FABRICATE, FLAT CIRCULAR STARTS-WITH GET MEASURING DEVICE INCLUDES-ALL MOTIONS NECESSARY TO GET MARKING INSTRUMENT; MEASURE MATERIAL FOR ROUGH CUT; POSITION MATERIAL TO SHEAR, TURN AND WALK ONE PACE TO SWITCH, TURN. SWITCH ON, SHEAR MATERIAL (TWO CUTS), AND TURN MACHINE OFF, OR CLAMP MATERIAL AND SHEAR ON MANUAL SHEAR(TWO CUTS); WALK BEHIND MACHINE; PICK UP MATERIAL; LAY OUT FOR CIRCULAR CUT; POSITION MATERIAL TO BEVERLY SHEAR, CUT CIRCUMFERENCE OF CIRCULAR DOUBLER, ASIDE SCRAP, OR SET UP AND CUT CIRCULAR SHAPE ON BANDSAW; DRESS CIRCUMFERENCE ON SANDER; AND FINAL DRESS WITH HAND FILE AND EMERY CLOTH. AS REQUIRED-SPLIT DOUBLER WITH SHEARS JR BANDSAW AND DRESS SPLIT SURFACES. ENDS-WITH DOUBLER FABRICATED CONDITIONS-(1) MATERIAL IS ALUMINUM TO .064 INCH THICKNESS. (2) WALKING TO AND FROM MACHINES NOT INCLUDED EXCEPT AS INDICATED. (3) ROUGH CUT COMPUTED AT 90 PER CENT USE OF POWER SHEAR AND 10 PER CENT USE OF MANUAL SHEAR. (4) FINAL CUT OF CIRCUMFERENCE COMPUTED AT 90 PER CENT USE OF BEVERLY SHEAR AND 10 PER CENT USE OF BANDSAW.
				9640		CASE 01 FABRICATE CIRCULAR DOUBLER TO 4 INCHES DIAMETER 02 FABRICATE CIRCULAR DOUBLER 4-7 INCHES DIAMETER 03 FABRICATE CIRCULAR DOUBLER 7-10 INCHES DIAMETER 04 FABRICATE CIRCULAR DOUBLER 10-13 INCHES DIAMETER 05 FABRICATE CIRCULAR DOUBLER 13-16 INCHES DIAMETER 06 FABRICATE AND SPLIT CIRCULAR DOUBLER TO 4 INCHES DIAMETER 07 FABRICATE AND SPLIT CIRCULAR DOUBLER 4-7 INCHES DIAMETER 08 FABRICATE AND SPLIT CIRCULAR DOUBLER 7-10 INCHES DIAMETER 09 FABRICATE AND SPLIT CIRCULAR DOUBLER 10-13 INCHES DIAMETER 10 FABRICATE AND SPLIT CIRCULAR DOUBLER 13-16 INCHES DIAMETER
				13830		
				19100		
				22460		
				26860		
				14140		
				19240		
				25670		
				30000		
				35360		

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMROFXX	SFAFFXX	VARIABLE	<p>FILLER(OR DOUBLER), FABRICATE, FLAT RECTANGULAR, TO .064 INCH THICK STARTS=WITH GET MEASURING DEVICE INCLUDES=ALL MOTIONS NECESSARY TO GET MARKING INSTRUMENT; LAY OUT RECTANGULAR SHAPE ON MATERIAL; TURN AND WALK TO SWITCH, TURN SWITCH ON, SHEAR MATERIAL(TWO CUTS), AND TURN MACHINE OFF, OR CLAMP MATERIAL AND CUT ON MANUAL SHEAR (TWO CUTS); WALK BEHIND MACHINE; PICK UP MATERIAL; DEBURR EDGES AND RADIUS CORNERS WITH POWER SANDER; AND FINAL DRESS WITH FILE AND EMERY CLOTH. AS REQUIRED=SPLIT FILLER ON SHEAR OR BANDSAW, DEBURR WITH POWER Sander, AND FINAL DRESS WITH FILE AND EMERY CLOTH.</p> <p>ENDS=WITH FILLER FABRICATED</p> <p>CONDITIONS=(1) TIME FOR WALKING TO AND FROM MACHINES INCLUDED ONLY AS INDICATED. (2) USE OF SHEARS COMPUTED AT 90 PER CENT FOR POWER AND 10 PER CENT FOR MANUAL SHEARS. (3) SPLITTING FILLERS IS COMPUTED AT 80 PER CENT WITH BANDSAW AND 20 PER CENT WITH SHEARS. (4) FIVE PER CENT OF THE SPLIT FILLERS ARE DEBURRED BY POWER SANDER.</p> <p>8520 CASE 01 FABRICATE RECTANGULAR FILLER WITH PERIMETER TO 16 INCHES</p> <p>10580 02 FABRICATE RECTANGULAR FILLER WITH PERIMETER 16-28 INCHES</p> <p>13180 03 FABRICATE RECTANGULAR FILLER WITH PERIMETER 28-40 INCHES</p> <p>15440 04 FABRICATE RECTANGULAR FILLER WITH PERIMETER 40-52 INCHES</p> <p>17500 05 FABRICATE RECTANGULAR FILLER WITH PERIMETER 52-64 INCHES</p> <p>19550 06 FABRICATE RECTANGULAR FILLER WITH PERIMETER 64-76 INCHES</p> <p>21610 07 FABRICATE RECTANGULAR FILLER WITH PERIMETER 76-88 INCHES</p> <p>23670 08 FABRICATE RECTANGULAR FILLER WITH PERIMETER 88-100 INCHES</p> <p>13090 09 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER TO 16 INCHES</p> <p>16240 10 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 16-28 INCHES</p> <p>20000 11 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 28-40 INCHES</p> <p>23360 12 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 40-52 INCHES</p> <p>26520 13 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 52-64 INCHES</p> <p>29660 14 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 64-76 INCHES</p> <p>32010 15 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 76-88 INCHES</p> <p>35960 16 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 88-100 INCHES</p>
NAA	807	MUA	AMROFXX	SFAHCXX	VARIABLE	<p>HOLE,CUT IN ALUMINUM TO .064 INCH THICKNESS, CIRCULAR ACCESS HOLE</p> <p>STARTS=WITH GET MEASURING DEVICE</p> <p>INCLUDES=ALL MOTIONS NECESSARY TO GET MARKING INSTRUMENT, LAY OUT HOLE, CENTER PUNCH, SET UP AND PUNCH HOLE WITH TURRET PUNCH, CUT HOLE WITH COMPOUND LEVER SNIPS, GET POWER TOOL, INSTALL ROTARY FILE, FINISH HOLE, ASIDE TOOL, AND DRESS HOLE WITH FILE AND EMERY CLOTH</p> <p>ENDS=WITH HOLE CUT</p> <p>CASE 01 CUT HOLE, 2-5 INCHES DIAMETER</p> <p>02 CUT HOLE, 5-8 INCHES DIAMETER</p> <p>03 CUT HOLE, 8-11 INCHES DIAMETER</p> <p>04 CUT HOLE, 11-14 INCHES DIAMETER</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY SOURCE	SOURCE CODE	DMWSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	807	MAA	KSMJPFI	MJPTP01	922	TOOLS, PREPARE FOR JO-BOLT INSTALLATION STARTS-WITH TURN TO TOOL CARRIER OR TOOLBOX INCLUDES-ALL MOTIONS NECESSARY TO GET TRAY FROM CARRIER;GET HOOK GAUGE,GUN,AND JO-BOLT SET FROM CARRIER AND PLACE IN TRAY;GET TRAY; TURN TO WORK AREA;PLACE TRAY IN WORK AREA;GET GUN;GET SET;INSTALL SET ON GUN;CONNECT AND DISCONNECT AIR HOSE;REMOVE SET FROM GUN;PLACE GUN AND SET IN TRAY;GET TRAY;TURN TO CARRIER OR TOOLBOX;AND PLACE TOOLS AND TRAY IN CARRIER ENDS-WITH RELEASE OF TRAY
DNA	807	MBA	AMRSJ01	SJPC101	1330	CARTRIDGE(SEALANT), INSTALL IN AND REMOVE FROM GUN STARTS-WITH GET GUN INCLUDES-ALL MOTIONS NECESSARY TO REMOVE BACK OF GUN,GET CARTRIDGE,INSERT IN GUN,REPLACE BACK OF GUN,INSTALL AND CUT TIP,REMOVE BACK OF GUN,REMOVE AND ASIDE CARTRIDGE,CLEAN GUN,AND REPLACE BACK OF GUN ENDS-WITH ASIDE GUN CONDITIONS-APPLICABLE TO AIR OPERATED SEMCO GUN AND TWO OUNCE CARTRIDGE
NAA	807	MAA	AMRQRXX	MNFGRXX VARIABLE		GROMMET(AND STUD), REMOVE,DZUS FASTENER,MANUAL MOTIONS ONLY STARTS-WITH GET PORTABLE DRILL INCLUDES-ALL MOTIONS NECESSARY TO GET CUTTER, INSTALL IN DRILL CHUCK,POSITION CUTTER TO GROMMET,ASIDE CUTTER,GET BAR,POSITION UNDER STUD HEAD,GET HAMMER,STRIKE STUD,ASIDE BAR AND STUD,GET CHISEL,POSITION TO GROMMET,DRIVE GROMMET OUT WITH HAMMER AND CHISEL,ASIDE HAMMER AND CHISEL,GET ROTARY FILE,INSTALL IN DRILL CHUCK,AND REMOVE ROTARY FILE ENDS-WITH ASIDE DRILL AND ROTARY FILE CONDITIONS-PROCESS TIME FOR CUTTING AND FILING NOT INCLUDED CASE 01 FIRST GROMMET AND STUD 02 EACH ADDITIONAL GROMMET AND STUD
				2155	712	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY SOURCE	CODE	DWMSTDP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	ONFSDXX	SNFCCXX	VARIABLE	<p>COLLAR,CUT FROM DRAW TYPE SHEAR PIN STARTS-WITH GET TOOL(S) TO CUT COLLAR INCLUDES-ALL MOTIONS NECESSARY TO POSITION TOOL TO COLLAR,CUT COLLAR,AND ASIDE TOOL(S). CASES 01-08 ALSO INCLUDE DRIVE PIN OUT WITH HAMMER AND DRIFT.</p> <p>ENDS-WITH RELEASE OF TOOLS</p> <p>CONDITIONS-ADDITIONAL PIECES DO NOT INCLUDE GET AND ASIDE TOOLS.APPLICABLE TO HUCK PULL TYPE SHEAR PIN OR SIMILAR TO 3/8 INCH DIAMETER,ANY LENGTH</p>
				616		CASE 01 CUT FIRST COLLAR WITH HUCK GUN MODEL 352,200,OR SIMILAR AND DRIVE OUT PIN
				358		02 CUT EACH ADDITIONAL COLLAR WITH HUCK GUN AND DRIVE OUT PIN
				621		03 CUT FIRST COLLAR WITH BOLT CUTTER AND DRIVE OUT PIN(BOLT CUTTER EQUIPPED WITH JAWS SPECIALLY DESIGNED TO CUT HUCK COLLARS)
				317		04 CUT EACH ADDITIONAL COLLAR WITH BOLT CUTTER AND DRIVE OUT PIN
				1081		05 CUT FIRST COLLAR WITH RIVET GUN AND CHISEL,DRIVE OUT PIN(INCLUDES ATTACH AND REMOVE CHISEL)
				294		06 CUT EACH ADDITIONAL COLLAR WITH RIVET GUN AND CHISEL,AND DRIVE OUT PIN
				935		07 CUT FIRST COLLAR WITH HAMMER AND CHISEL,AND DRIVE PIN OUT
				611		08 CUT EACH ADDITIONAL COLLAR WITH HAMMER AND CHISEL,AND DRIVE PIN OUT
				186		09 CUT FIRST COLLAR WITH HUCK GUN MODEL 352,200 OR SIMILAR
				125		10 CUT EACH ADDITIONAL COLLAR WITH HUCK GUN
				171		11 CUT FIRST COLLAR WITH BOLT CUTTER WITH JAWS SPECIALLY DESIGNED FOR REMOVAL OF HUCK COLLARS
				84		12 CUT EACH ADDITIONAL COLLAR WITH BOLT CUTTER
				641		13 CUT FIRST COLLAR WITH RIVET GUN AND CHISEL(INCLUDES ATTACH AND REMOVE CHISEL BLADE)
				45		14 CUT EACH ADDITIONAL COLLAR WITH RIVET GUN AND CHISEL
				680		15 CUT FIRST COLLAR WITH HAMMER AND CHISEL
				472		16 CUT EACH ADDITIONAL COLLAR WITH HAMMER AND CHISEL
NAA	807	MAA	AMRAN17	SNFFI01		<p>FASTENER(ANCHORED),INSTALL MISSING FLOATING OR CHANNEL NUT ONLY,ALL TYPES,FIRST PIECE</p> <p>STARTS-WITH GET NUT PLATE ASSEMBLY INCLUDES-ALL MOTIONS NECESSARY TO GET NUT PLATE ASSEMBLY,POSITION FOR NUT REMOVAL,GET DUCK BILL PLIERS,BEND TWO TABS WITH PLIERS, ASIDE PLATE(NUT DROPS TO BENCH),GET NUT, POSITION TO EXISTING ATTACHED PLATE,HOLD FIRMLY IN PLACE,BEND TABS AROUND PLATE,ASIDE PLIERS,CHECK ALIGNMENT AND FRENESS OF NUT</p> <p>ENDS-WITH RELEASE NUT</p>
NAA	807	MAA	AMRAN18	SNFFI02		<p>FASTENER(ANCHORED),INSTALL MISSING FLOATING OR CHANNEL NUT ONLY,ALL TYPES,ADDITIONAL PIECE</p> <p>STARTS-WITH GET NUT PLATE ASSEMBLY INCLUDES-ALL MOTIONS NECESSARY TO GET NUT PLATE ASSEMBLY,POSITION FOR NUT REMOVAL, USE DUCK BILL PLIERS TO BEND TWO TABS,ASIDE PLATE(NUT DROPS TO BENCH),GET NUT,POSITION TO EXISTING ATTACHED PLATE,HOLD FIRMLY IN PLACE AND BEND TWO TABS OVER PLATE,ASIDE PLIERS, CHECK ALIGNMENT AND FRENESS OF NUT</p> <p>ENDS-WITH RELEASE NUT</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRAN34	SNFFI03	3610	<p>FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE,OR DZUS SPRING,1-MAN OPERATION, FIRST PIECE</p> <p>STARTS-WITH GET CLECO AND CLECO PLIERS INCLUDES-ALL MOTIONS NECESSARY TO INSTALL AND REMOVE CLECO(PLIER OR WING TYPE),HOLD FASTENER IN PLACE,INSTALL AND BUCK RIVET(RIVET GUN OR PORTABLE PNEUMATIC "C" SQUEEZE),MICROSHAVE RIVET,PLUG IN AND OUT AIR HOSE FOR REAM,REAM HOLE FOR MISALIGNMENT,PLUG IN AND OUT AIR HOSE (DUE TO REAM),INSTALL AND BUCK SECOND RIVET, MICROSHAVE RIVET</p> <p>ENDS-WITH ASIDE MICROSHAVER</p> <p>CONDITIONS-PLUG IN AND OUT FOR REAM,REAM HOLE FOR ALIGNMENT AND PLUG IN AND OUT AIR HOSE TO GUN DUE TO REAM ARE REQUIRED 10 PERCENT OF THE TIME. MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME. MICROSHAVER IS PFAHLER MODEL 33A OR MICRO MILLER MODEL BRM</p>
NAA	807	MUA	AMRAN35	SNFFI04	1840	<p>FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE,OR DZUS SPRING,1-MAN OPERATION, ADDITIONAL PIECE</p> <p>STARTS-WITH GET CLECO AND CLECO PLIERS INCLUDES-ALL MOTIONS NECESSARY TO INSTALL AND REMOVE CLECO(PLIER OR WING TYPE),HOLD FASTENER IN PLACE,INSTALL AND BUCK RIVET(RIVET GUN OR PORTABLE PNEUMATIC "C" SQUEEZE),MICROSHAVE RIVET,PLUG IN AND OUT AIR HOSE FOR REAM,REAM HOLE FOR MISALIGNMENT,PLUG IN AND OUT AIR HOSE (DUE TO REAM),INSTALL AND BUCK SECOND RIVET, MICROSHAVE RIVET</p> <p>ENDS-WITH ASIDE MICROSHAVER</p> <p>CONDITIONS-PLUG IN AND OUT AIR HOSE FOR REAM, REAM HOLE FOR ALIGNMENT AND PLUG IN AND OUT AIR HOSE TO GUN DUE TO REAM ARE REQUIRED 10 PERCENT OF THE TIME. MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME. MICROSHAVER IS PFAHLER MODEL 33A OR MICRO MILLER MODEL BRM</p>
NAA	807	MUA	AMRAN36	SNFFI05	5770	<p>FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE,OR DZUS SPRING,2-MAN OPERATION, FIRST PIECE</p> <p>STARTS-WITH GET CLECO AND CLECO PLIERS INCLUDES-ALL MOTIONS NECESSARY TO INSTALL AND REMOVE CLECO(PLIER OR WING TYPE),HOLD FASTENER IN PLACE,INSTALL AND BUCK RIVET,MICROSHAVE RIVET,PLUG IN AND OUT AIR HOSE FOR REAM,REAM HOLE FOR MISALIGNMENT,PLUG IN AND OUT AIR HOSE TO GUN DUE TO REAM,INSTALL AND BUCK SECOND RIVET,MICROSHAVE RIVET</p> <p>ENDS-WITH ASIDE MICROSHAVER</p> <p>CONDITIONS-PLUG IN AND OUT AIR HOSE FOR REAM,REAM HOLE,AND PLUG IN AND OUT AIR HOSE TO GUN DUE TO REAM ARE REQUIRED 10 PERCENT OF THE TIME. MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME. MICROSHAVER MODEL 33A OR MICRO MILLER MODEL BRM</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRAN37	SNFFI06	3250	<p>FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE OR OZUS SPRING, 2-MAN OPERATION, ADDITIONAL</p> <p>STARTS-WITH GET CLECO AND CLECO PLIERS INCLUDES-ALL THE MOTIONS NECESSARY TO INSTALL AND REMOVE CLECO(PLIER OR WING TYPE),HOLD FASTENER IN PLACE,PLUG IN AND OUT AIR HOSE FOR REAM,REAM HOLE FOR MISALIGNMENT,PLUG IN AND OUT AIR HOSE TO GUN,INSTALL AND BUCK SECND RIVET,MICROSHAVE RIVET</p> <p>ENDS-WITH ASIDE MICROSHAVER</p> <p>CONDITIONS-PLUG IN AND OUT AIR HOSE FOR REAM, REAM HOLE,AND PLUG IN AND OUT AIR HOSE TO GUN DUE TO REAM ARE REQUIRED 10 PERCENT OF THE TIME. MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME. MICROSHAVER MODEL PFAHLER MODEL 33A OR MICRO MILLER MODEL BRM</p>
NAA	807	MUA	CMRAN01	SNFFI07	18850	<p>FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY WITH BLIND RIVETS,FIRST OR SINGLE THREE-NUT LENGTH</p> <p>STARTS-WITH GET LENGTH OF CHANNEL INCLUDES-ALL MOTIONS NECESSARY TO CUT CHANNEL TO LENGTH WITH COMPOUND LEVER SNIPS,DEBURR CHANNEL END WITH FILE,MEASURE AND MARK HOLE LOCATIONS,CENTER PUNCH HOLE LOCATIONS,SET UP PORTABLE DRILL,DRILL HOLES,DEBURR HOLES WITH HAND HELD DRILL BIT,INSTALL TEMPORARY SCREWS WITH SCREWDRIVER,SET UP RIVET GUN,INSTALL BLIND RIVETS AND REMOVE TEMPORARY SCREWS</p> <p>ENDS-WITH ASIDE SCREWS AND SCREWDRIVER</p>
NAA	807	MUA	CMRANXX	SNFFI08	4530	<p>FASTENER(ANCHORED),INSTALL CHANNEL NUT ASSEMBLY WITH BLIND RIVETS,EACH ADDITIONAL THREE-NUT LENGTH</p> <p>STARTS-WITH MEASURE FOR ADDITIONAL HOLES INCLUDES-ALL MOTIONS NECESSARY TO MEASURE AND MARK FOR ADDITIONAL HOLES,CENTER PUNCH,DRILL AND DEBURR ADDITIONAL HOLES,SECURE WITH SCREW, INSTALL BLIND RIVET AND REMOVE SCREW</p> <p>ENDS-WITH ASIDE SCREW</p>
NAA	807	MUA	CMRAN03	SNFFI09	14970	<p>FASTENER(ANCHORED),INSTALL CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS, FIRST OR SINGLE THREE-NUT LENGTH</p> <p>STARTS-WITH GET LENGTH OF CHANNEL INCLUDES-ALL MOTIONS NECESSARY TO CUT CHANNEL TO LENGTH WITH COMPOUND LEVER SNIPS,DEBURR CHANNEL END WITH FILE,INSTALL TWO TEMPORARY SCREWS WITH SCREWDRIVER,SET UP DRILL,DRILL HOLES FOR RIVETS,COUNTERSINK HOLES,INSTALL TWO BLIND RIVETS,AND REMOVE TEMPORARY SCREWS</p> <p>ENDS-WITH ASIDE SCREWS AND SCREWDRIVER</p>
NAA	807	MUA	CMRAN04	SNFFI10	2880	<p>FASTENER(ANCHORED),INSTALL CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS, EACH ADDITIONAL THREE-NUT LENGTH</p> <p>STARTS-WITH INSTALL ONE TEMPORARY SCREW INCLUDES-ALL MOTIONS NECESSARY TO DRILL AND COUNTERSINK ONE HOLE,INSTALL BLIND RIVET,AND REMOVE TEMPORARY SCREW</p> <p>ENDS-WITH ASIDE SCREW</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	CCUP=	QUALITY	SOURCE	OWMSTOP	TMU	OPERATION/ELEMENT DESCRIPTION
SOURCE	ATION		CODE	ELEMENT	VALUE	
NAA	807	MUA	AMRAN30	SNFFI11	5390	<p>FASTENER(ANCHORED), INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, FIRST PIECE</p> <p>STARTS-WITH GET TOOLS</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO SECURE FASTENER WITH SCREW, INSTALL RIVET(WITH RIVET GUN AND BUCKING BAR OR PORTABLE PNEUMATIC "C" SQUEEZE), MICROSHAVE RIVET, INSTALL ADDITIONAL RIVET, PLUG IN AND OUT AIR HOSE FOR REAM, REAM HOLE FOR MISALIGNMENT, PLUG IN AND OUT AIR HOSE DUE TO REAM, MICROSHAVE SECOND RIVET</p> <p>ENDS-WITH ASIDE MICROSHAVER</p> <p>CONDITIONS-REAM HOLE FOR MISALIGNMENT REQUIRED 10 PERCENT OF THE TIME. MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME. MICROSHAVER MODEL 33A OR MICRO MILLER MODEL BRM.</p>
NAA	807	MUA	AMRAN31	SNFFI12	3180	<p>FASTENER(ANCHORED), INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, ADDITIONAL</p> <p>STARTS-WITH GET SCREW TO SECURE FASTENER</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO SECURE FASTENER WITH SCREW, INSTALL RIVETS, MICROSHAVE RIVETS, AND REAM HOLE TO CORRECT MISALIGNMENT AS NECESSARY</p> <p>ENDS-WITH ASIDE MICROSHAVER</p> <p>CONDITIONS-NO TIME INCLUDED FOR TOOL SETUP.</p> <p>REAM HOLE FOR MISALIGNMENT REQUIRED 10 PERCENT OF THE TIME. MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME. MICROSHAVER MODEL 33A OR MICRO MILLER MODEL BRM USED.</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA OCCUP- SOURCE ATION	QUALITY SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
MAA 807	MUA AMRANXX	SNFFPXX	VARIABLE	FASTENER(ANCHORED),PREPARE HOLE AND INSTALL STARTS-WITH MEASURE FOR HOLE LOCATION INCLUDES-ALL MOTIONS NECESSARY TO MEASURE AND MARK FOR HOLE LOCATION,CENTER PUNCH LOCATION, DRILL HOLE,DEBURH HOLE,SECURE NUT PLATE WITH SCREW,DRILL HOLE,INSTALL FIRST RIVET;DRILL HOLE,INSTALL ADDITIONAL RIVET;AND REMOVE SCREW ENDS-WITH ASIDE TOOLS
		16780		CASE 01 PREPARE HOLE AND INSTALL NUT PLATE,ALL TYPES-FIRST PIECE
		5140		02 PREPARE HOLE AND INSTALL NUT PLATE,ALL TYPES,ADDITIONAL PIECE
		19690		03 PREPARE HOLE AND INSTALL NUT PLATE,ALL TYPES,2-MAN OPERATION,FIRST PIECE
		7300		04 PREPARE HOLE AND INSTALL NUT PLATE,ALL TYPES,2-MAN OPERATION,ADDITIONAL PIECE
		16480		05 PREPARE HOLE AND INSTALL CAMLOC JR AIRLOC RECEPTACLE OR DZUS SPRING,ALL TYPES,FIRST PIECE
		4550		06 PREPARE HOLE AND INSTALL CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING,ALL TYPES,ADDITIONAL PIECE
		18780		07 PREPARE HOLE AND INSTALL CAMLOC JR AIRLOC RECEPTACLE OR DZUS SPRING,ALL TYPES,2-MAN OPERATION,FIRST PIECE
		6220		08 PREPARE HOLE AND INSTALL CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING,ALL TYPES,2-MAN OPERATION,ADDITIONAL
		2200		09 PREPARE HOLE AND INSTALL FLAT HEAD RIV-NUT,ALL SIZES,FIRST PIECE
		1070		10 PREPARE HOLE AND INSTALL FLAT HEAD RIV-NUT,ALL SIZES,ADDITIONAL PIECE
		4710		11 PREPARE HOLE AND INSTALL FLUSH-HEAD RIV-NUT,ALL SIZES,FIRST PIECE
		1190		12 PREPARE HOLE AND INSTALL FLUSH-HEAD RIV-NUT,ALL SIZES,ADDITIONAL PIECE
		2480		13 PREPARE HOLE AND INSTALL FLAT HEAD DILL NUT,ALL SIZES,FIRST PIECE
		1250		14 PREPARE HOLE AND INSTALL FLAT HEAD DILL NUT,ALL SIZES,ADDITIONAL PIECE
		4990		15 PREPARE HOLE AND INSTALL FLUSH-HEAD DILL NUT,ALL SIZES,FIRST PIECE
		1370		16 PREPARE HOLE AND INSTALL FLUSH-HEAD DILL NUT,ALL SIZES,ADDITIONAL PIECE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE	SOURCE CODE	DWMSTD P ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRARXX	SNFFRXX	VARIABLE	FASTENER(ANCHORED). REPLACE STARTS-WITH REACH TO TOOL OR FASTENER INCLUDES-ALL MOTIONS REQUIRED TO REMOVE AND INSTALL VARIOUS TYPES OF ANCHORED FASTENERS ENDS-WITH REPLACEMENT FASTENER INSTALLED
				7037		CASE 01 REMOVE AND INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, FIRST PIECE
				3882		02 REMOVE AND INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, ADDITIONAL PIECE
				9677		03 REMOVE AND INSTALL NUT PLATE, ALL TYPES, 2-MAN OPERATION, FIRST PIECE
				5782		04 REMOVE AND INSTALL NUT PLATE, ALL TYPES, 2-MAN OPERATION, ADDITIONAL PIECE
				5257		05 REMOVE AND INSTALL CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING, ALL TYPES, 1-MAN OPERATION, FIRST PIECE
				2542		06 REMOVE AND INSTALL CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING, ALL TYPES, 1-MAN OPERATION, ADDITIONAL PIECE
				7417		07 REMOVE AND INSTALL CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING, ALL TYPES, 2-MAN OPERATION, FIRST PIECE
				3952		08 REMOVE AND INSTALL CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING, ALL TYPES, 2-MAN OPERATION, ADDITIONAL PIECE
				1158		09 REMOVE AND INSTALL RIV-NUT, ALL TYPES, FIRST PIECE
				804		10 REMOVE AND INSTALL RIV-NUT, ALL TYPES, ADDITIONAL PIECE
				1665		11 REMOVE AND INSTALL DILL NUT, ALL TYPES FIRST PIECE
				1456		12 REMOVE AND INSTALL DILL NUT, ALL TYPES ADDITIONAL PIECE
				726		13 REMOVE AND INSTALL FLOATING OR CHANNEL NUT ONLY, FIRST PIECE
				635		14 REMOVE AND INSTALL FLOATING OR CHANNEL NUT ONLY, ADDITIONAL PIECE
				17699		15 REMOVE AND INSTALL CHANNEL NUT ASSEMBLY THREE-NUT LENGTH OF CHANNEL, FIRST
				3787		16 REMOVE AND INSTALL CHANNEL NUT ASSEMBLY, THREE-NUT LENGTH OF CHANNEL, ADDITIONAL
NAA	807	MBA	AMRQNXX	SNFGIXX	VARIABLE	GROMMET(CAMLOC), INSTALL WITH SNAP RING STARTS-WITH GET SNAP RING TOOL INCLUDES-ALL MOTIONS NECESSARY TO REMOVE RUBBER PROTECTIVE KNOB, GET MANDREL, GET SNAP RING, POSITION SNAP RING ON MANDREL, POSITION SNAP RING TOOL OVER MANDREL, GET GROMMET, POSITION TO HOLE, INSTALL SNAP RING ON GROMMET, AND PLACE RUBBER PROTECTIVE KNOB ON TOOL ENDS-WITH ASIDE TOOLS CONDITIONS=APPLICABLE TO 4002 GROMMET SERIES WITH R4G OR 40G26-L SNAP RINGS
				744		CASE 01 FIRST GROMMET
				311		02 EACH ADDITIONAL GROMMET
NAA	807	MAA	AMRQRXX	SNFGRXX	VARIABLE	GROMMET(CAMLOC), REMOVE, SECURED WITH SNAP RING STARTS-WITH GET TOOL TO REMOVE SNAP RING INCLUDES-ALL MOTIONS NECESSARY TO REMOVE SNAP RING USING POINTED TOOL AND PLIERS, AND TO REMOVE GROMMET ENDS-WITH ASIDE GROMMET CASE 01 FIRST GROMMET AND SNAP RING 02 EACH ADDITIONAL GROMMET AND SNAP RING
				752		
				672		

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	CCUP-	QUALITY	SOURCE	DWMSTOP	TMU	OPERATION/ELEMENT DESCRIPTION
ATION			CODE	ELEMENT	VALUE	
NAA	807	MAA	AMRQNXX	SNFIGXX	VARIABLE	<p>GROMMET(AND STUD),INSTALL,DZUS FASTENER,USING PNEUMATIC FLOOR DIMPLER</p> <p>STARTS-WITH GET MATERIAL</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO MOVE MATERIAL TO BOTTOM ANVIL OF DIMPLER,GET GROMMET,POSITION GROMMET IN HOLE,POSITION MATERIAL TO BOTTOM ANVIL,GET STUD,POSITION IN GROMMET,ACTUATE MACHINE WITH FOOT PEDAL,AND CHECK SECURITY OF INSTALLATION</p> <p>ENDS-WITH ASIDE MATERIAL</p> <p>CASE 01 FIRST DZUS FASTENER</p> <p>02 EACH ADDITIONAL DZUS FASTENER IN SAME PIECE OF MATERIAL</p>
				315		
				255		
NAA	807	MAA	SMFNNXX	SNFINXX	VARIABLE	<p>NUT(CHANNEL),INSTALL</p> <p>STARTS-WITH GET CHANNEL NUT ASSEMBLY</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO POSITION CHANNEL,GET DIAGONAL PLIERS,CUT CHANNEL TO LENGTH,ASIDE PLIERS,GET FILE,SMOOTH CUT END,ASIDE FILE,POSITION CHANNEL,INSTALL TWO SCREWS WITH SCREWDRIVER,GET DRILL MOTOR,INSTALL DRILL,DRILL TWO HOLES,REMOVE DRILL,INSTALL COUNTERSINK,COUNTERSINK TWO HOLES,REMOVE COUNTERSINK,ASIDE DRILL MOTOR,GET RIVET GUN,INSTALL SPRING AND SET,INSTALL TWO RIVETS,REMOVE SPRING AND SET FROM RIVET GUN,ASIDE RIVET GUN,AND REMOVE TWO SCREWS</p> <p>ENDS-WITH ASIDE SCREWDRIVER</p> <p>CONDITIONS-APPLICABLE TO DRILLING NO.45-NO.14 DIAMETER HOLES IN .063-.090 INCH THICKNESS ALUMINUM AND COUNTERSINKING WITH 1/8-5/32 INCH 100 DEGREE COUNTERSINK.CASE 02 INCLUDES NO SETUP TIME FOR DRILL,COUNTERSINK OR RIVET GUN</p> <p>CASE 01 FIRST TWO-NUT LENGTH OF CHANNEL</p> <p>02 EACH ADDITIONAL ONE-NUT LENGTH OF A CHANNEL(INSTALL AND REMOVE ONE SCREW,DRILL AND COUNTERSINK ONE HOLE,AND INSTALL ONE RIVET).</p>
				5298		
				1078		
NAA	807	MBA	AMRQNXX	SNFISXX	VARIABLE	<p>STUD(AIRLOC),INSTALL,PER STUD</p> <p>STARTS-WITH GET AIRLOC STUD</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO GET PIN,POSITION STUD IN HOLE,POSITION PIN IN STUD SHANK,GET TOOL,AND SECURE PIN IN SHANK</p> <p>ENDS-WITH ASIDE TOOL</p> <p>CASE 01 INSTALL STUD WITH AIRLOC TOOL</p> <p>02 INSTALL STUD WITH PNEUMATIC SQUEEZE</p>
				420		
				312		
FFD	807	MAA	KSMANAI	SNFNIXX	VARIABLE	<p>NUT(ANCHOR),INSTALL IN EXISTING HOLES,EASY ACCESS</p> <p>STARTS-WITH GET ANCHOR NUT</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO POSITION ANCHOR NUT TO HOLES,GET CLECO PLIERS,GET AND INSTALL CLECO,ASIDE PLIERS,GET RIVET GUN,GET AND INSTALL SET,GET AND INSTALL SPRING,CONNECT AIR HOSE,GET FIRST RIVET,PLACE RIVET IN HOLE,GET BUCKING BAR AND POSITION TO RIVET,POSITION GUN AND DRIVE RIVET,ASIDE BUCKING BAR,MOVE GUN TO ONE SIDE,INSPECT INSTALLATION,GET CLECO PLIERS,REMOVE CLECO,ASIDE PLIERS AND CLECO,GET SECOND RIVET,PLACE IN HOLE,GET AND PLACE BUCKING BAR,MOVE RIVET GUN TO RIVET,DRIVE RIVET,ASIDE BUCKING BAR,DISCONNECT AIR HOSE,ASIDE RIVET GUN,AND INSPECT INSTALLATION</p> <p>ENDS-WITH ASIDE INSPECTION LIGHT</p> <p>CONDITIONS-APPLICABLE TO 3/32-3/16 INCH DIAMETER SOLID HEAD RIVET</p> <p>CASE 01 FIRST ANCHOR NUT</p> <p>02 EACH ADDITIONAL ANCHOR NUT</p>
				2573		
				1933		

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	CCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	807	MAA	KSMANA3	SNFNI03	4502	NUT(ANCHOR),INSTALL,DRILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE,FIRST NUT,EASY ACCESS STARTS=WITH GET ANCHOR NUT INCLUDES=ALL MOTIONS NECESSARY TO POSITION NUT FOR DRILLING,GET DRILL MOTOR,GET AND INSTALL DRILL,CONNECT AIR HOSE,DRILL TWO HOLES,DISCONNECT AIR HOSE,DISASSEMBLE AND ASIDE DRILL,GET AND INSTALL SCREW,INSTALL TWO CLECO'S,REMOVE TWO CLECO'S,COUNTERSINK TWO HOLES,INSTALL TWO RIVETS,AND REMOVE SCREW ENDS=WITH ASIDE SCREWDRIVER CONDITIONS=APPLICABLE TO DRILLING HOLE TO 3/16 INCH DIAMETER IN ALUMINUM OR MAGNESIUM T1 .100 INCH THICKNESS AND INSTALLING 3/32-3/16 INCH DIAMETER SOLID HEAD RIVET
FFD	807	MAA	KSMANA4	SNFNI04	2863	NUT(ANCHOR),INSTALL,EASY ACCESS,DRILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE,EACH ADDITIONAL NUT STARTS=WITH GET ANCHOR NUT INCLUDES=ALL MOTIONS NECESSARY TO POSITION NUT FOR DRILLING,DRILL TWO HOLES,GET AND INSTALL HOLDING SCREW,INSTALL AND REMOVE TWO CLECO'S,COUNTERSINK TWO HOLES,INSTALL TWO RIVETS AND REMOVE HOLDING SCREW ENDS=WITH ASIDE SCREWDRIVER CONDITIONS=APPLICABLE TO DRILLING HOLE TO 3/16 INCH DIAMETER IN ALUMINUM OR MAGNESIUM T1 .100 INCH THICKNESS AND INSTALLING 3/32-3/16 INCH DIAMETER SOLID HEAD RIVET
NAA	8C7	MBA	SMFNN02	SNFNI05	4039	NUT(ANCHOR),INSTALL WITH TWO RIVETS,FIRST NUT (USE DRILL JIG TO LOCATE ATTACH HOLES) STARTS=WITH GET DRILL JIG INCLUDES=ALL MOTIONS NECESSARY TO POSITION JIG IN HOLE,GET DRILL MOTOR,INSTALL DRILL IN CHUCK,DRILL ANCHOR NUT ATTACH HOLE,REPPOSITION JIG FOR SECOND HOLE,DRILL HOLE,REMOVE AND ASIDE JIG,REMOVE DRILL,INSTALL COUNTERSINK,COUNTERSINK TWO HOLES,REMOVE COUNTERSINK,ASIDE DRILL MOTOR,GET ANCHOR NUT,POSITION TO HOLES,INSTALL CLECO WITH PLIERS,SET UP RIVET GUN,INSTALL FIRST RIVET,REMOVE CLECO,INSTALL SECOND RIVET,AND REMOVE SPRING AND SET FROM RIVET GUN ENDS=WITH ASIDE TOOLS CONDITIONS=APPLICABLE TO DRILLING NO.+.5-NJ+.4 DIAMETER HOLES IN .063-.090 INCH THICKNESS ALUMINUM AND COUNTERSINKING WITH A 1/8-5/32 INCH 100 DEGREE COUNTERSINK,ALUMINUM OR MONEL RIVETS 1/8 - 3/16 INCH DIAMETER
NAA	807	MBA	SMFNN03	SNFNI06	1448	NUT(ANCHOR),INSTALL WITH TWO RIVETS,ADDITIONAL NUT(USE DRILL JIG TO LOCATE ATTACH HOLES) STARTS=WITH GET DRILL JIG INCLUDES=ALL MOTIONS NECESSARY TO POSITION JIG IN HOLE,DRILL FIRST HOLE,REPPOSITION JIG,DRILL SECOND HOLE,REMOVE JIG,COUNTERSINK HOLES,GET ANCHOR NUT,POSITION TO HOLES,INSTALL CLECO,INSTALL FIRST RIVET,REMOVE CLECO,AND INSTALL SECOND RIVET ENDS=WITH RIVET GUN IN HAND CONDITIONS=DOES NOT INCLUDE ANY SETUP TIME FOR DRILL,COUNTERSINK,OR RIVET GUN.APPLICABLE TO DRILLING NO.45-NO.14 DIAMETER HOLES IN .063-.090 INCH THICKNESS ALUMINUM AND COUNTERSINKING WITH 1/8-5/32 INCH 100 DEGREE COUNTERSINK,ALUMINUM OR MONEL RIVETS 1/8 - 3/16 INCH DIAMETER.

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	ONFSOII	SNFPI01	458	PIN(DRAW TYPE SHEAR),INSTALL STARTS-WITH GET COLLAR INCLUDES-ALL MOTIONS NECESSARY TO GET PIN, INSERT IN HOLE,PLACE COLLAR ON PIN,GET SWAGING TOOL,PLACE FINGER ON HEAD OF PIN,PLACE SWAGING TOOL ON PIN,SWAGE COLLAR,AND EXAMINE INSTALLATION ENDS-WITH ASIDE TOOL CONDITIONS-APPLICABLE TO HUCK PULL TYPE SHEAR PIN OR SIMILAR TO 3/8 INCH DIAMETER,ANY LENGTH,AND HUCK GUN MODEL 352,200 OR SIMILAR
NAA	807	MAA	AMRAR54	SNFRFXX VARIABLE	229 181	FASTENER(ANCHORED),REMOVE WORN OR STRIPPED FLOATING OR CHANNEL NUT ONLY STARTS-WITH GET DUCKBILL PLIERS INCLUDES-ALL MOTIONS NECESSARY TO GET PLIERS, BEND TWO TABS; AND GET, REMOVE, AND ASIDE NUT ENDS-WITH ASIDE NUT CASE 01 FIRST OR SINGLE NUT 02 EACH ADDITIONAL NUT
NAA	807	MAA	AMRQRXX	SNFRSXX VARIABLE	342 288	STUD(AIRLOC),REMOVE PIN WITH AIRLOC TOOL STARTS-WITH GET AIRLOC TOOL INCLUDES-ALL MOTIONS NECESSARY TO POSITION AIRLOC STUD IN TOOL, REMOVE PIN, ASIDE TOOL, AND REMOVE STUD ENDS-WITH ASIDE PIN AND STUD CASE 01 FIRST STUD 02 EACH ADDITIONAL STUD
NAA	807	MAA	AMRQNXX	SNFSIXX VARIABLE	215 106	STUD(CAMLOC),INSTALL WITH CAMLOC PLIERS,NO RETAINING WASHER STARTS-WITH GET CAMLOC STUD ASSEMBLY INCLUDES-ALL MOTIONS NECESSARY TO GET CAMLOC PLIERS,POSITION PLIERS TO STUD,COMPRESS SPRING,POSITION STUD IN GROMMET,AND REMOVE PLIERS FROM STUD ENDS-WITH ASIDE PLIERS CASE 01 FIRST STUD ASSEMBLY 02 EACH ADDITIONAL STUD ASSEMBLY
NAA	807	MAA	AMRQN32	SNFSI03	318	STUD(STRESS HEAD CAMLOC),INSTALL,PER STUD STARTS-WITH GET CAMLOC STUD ASSEMBLY INCLUDES-ALL MOTIONS NECESSARY TO POSITION STUD IN HOLE,GET RETAINER RING,POSITION ON STUD,GET HOLLOW DRIVE BAR,POSITION ON RETAINING RING,GET HAMMER,SEAT RETAINING RING, AND VISUALLY INSPECT ASSEMBLY ENDS-WITH ASIDE TOOLS CONDITIONS-APPLICABLE TO 4S STUD AND RETAINER SERIES
NAA	807	MAA	AMRQRXX	SNFSRXX VARIABLE	204 116	STUD(CAMLOC),REMOVE,NO RETAINING WASHER STARTS-WITH GET CAMLOC PLIERS INCLUDES-ALL MOTIONS NECESSARY TO RAISE STUD WITH FINGER AND HOLD,POSITION PLIERS UNDER SPRING CUP,COMPRESS SPRING,AND REMOVE STUD FROM GROMMET ENDS-WITH ASIDE STUD AND PLIERS CASE 01 FIRST STUD 02 EACH ADDITIONAL STUD
NAA	807	MAA	AMRQN33	SNFWI01	326	WASHER(SPLIT),INSTALL ON CAMLOC STUD ASSEMBLY STARTS-WITH GET SPLIT WASHER INCLUDES-ALL MOTIONS NECESSARY TO GET PLIERS, GRASP WASHER WITH PLIERS,BEND WASHER TO ENLARGE OPENING,HOLD STUD,PLACE WASHER ON STUD,BEND WASHER TO CLOSE OPENING,AND VISUALLY INSPECT ASSEMBLY ENDS-WITH ASIDE PLIERS CONDITIONS-APPLICABLE TO 2600-SW,2700-SW,AND 4002-SW WASHER SERIES

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSDTP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MAA	AMRQN34	SNFWT02	274	WASHER(SOLID), INSTALL ON CAMLOC STUD ASSEMBLY STARTS=WITH GET LOCKWASHER INCLUDES=ALL MOTIONS NECESSARY TO GET LOCKWASHER TOOL, POSITION LOCKWASHER IN TOOL, HOLD STUD, INSTALL LOCKWASHER, REMOVE TOOL, AND VISUALLY EXAMINE ASSEMBLY ENDS=WITH ASIDE TOOL CONDITIONS=APPLICABLE TO 2600-LW AND 2755-L WASHER SERIES
NAA	807	MAA	AMRQR32	SNFWR01	140	WASHER(SPLIT), REMOVE FROM CAMLOC STUD, PER WASHER STARTS=WITH GET PLIERS INCLUDES=ALL MOTIONS NECESSARY TO HOLD CAMLOC STUD, GET WASHER WITH PLIERS, BEND WASHER TO ENLARGE OPENING, AND REMOVE WASHER ENDS=WITH ASIDE WASHER AND PLIERS CONDITIONS=APPLICABLE TO 2600-SW, 2700-SW, AND 4002-SW SERIES WASHERS
FFD	807	TAA	KTLPTCB	BPTAC01	1591	ALUMINUM,CUT WITH DISC, ROUTER OR SIMILAR MOUNTED IN PNEUMATIC GUN, PROCESS TIME ONLY STARTS=WITH CUTTER IN POSITION TO CUT INCLUDES=ALL MOTIONS NECESSARY TO CUT ONE LINEAR INCH OF ALUMINUM SHEET OR TUBING .081 TO .125 INCH THICK ENDS=WITH COMPLETION OF CUT CONDITIONS=APPLICABLE TO 3000 RPM PNEUMATIC GUN
FFD	807	TAA	KTLPTCC	BPTAC02	1985	ALUMINUM,CUT WITH SAW MOUNTED IN PNEUMATIC GUN STARTS=WITH SAW IN POSITION FOR CUTTING INCLUDES=ALL MOTIONS NECESSARY TO CUT ONE LINEAR INCH OF ALUMINUM SHEET OR TUBING TO .250 INCH THICK ENDS=WITH CUT COMPLETED CONDITIONS=APPLICABLE TO 3000 RPM PNEUMATIC GUN AND SAW TWO INCHES IN DIAMETER WITH 40-60 TEETH PER INCH
FFD	807	TAA	KSMHRA12	BPTBS01	50	BOLT(HUCK BOLT), SET WITH PULL TYPE GUN STARTS=WITH ACTUATION OF GUN TRIGGER INCLUDES=ALL THE TIME NECESSARY TO SET ONE HUCK BOLT ENDS=WITH RELEASE OF TRIGGER
FFD	807	TAA	KSMTPR2	BPTCS01	153	COLLAR(RIVET),SPLIT WITH PNEUMATIC RIVET GUN, PROCESS TIME ONLY STARTS=WITH ACTUATE RIVET GUN SWITCH INCLUDES=ALL THE TIME NECESSARY TO SPLIT ONE RIVET COLLAR ENDS=WITH RELEASE OF SWITCH
FFD	807	TAA	KPTJB13	BPTJI01	49	J-BOLT, INSTALL WITH PNEUMATIC TOOL STARTS=WITH ACTUATION OF TRIGGER INCLUDES=ALL THE MACHINE TIME NECESSARY TO TURN DOWN AND TIGHTEN ONE J-BOLT ENDS=WITH RELEASE OF TRIGGER

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	GROUP	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	TUA	SHRSNXX	SSRSAXX	VARIABLE	<p>SEALANT, APPLY WITH PNEUMATIC SEALANT GUN STARTS=WITH GET GUN INCLUDES=ALL MOTIONS NECESSARY TO PLACE GUN IN VISE,DISCONNECT AIR HOSE,UNSCREW SEALANT CHAMBER,ASIDE PNEUMATIC PISTON,GET SCREWDRIVER AND PUSH PLUNGER DOWN,GET CAN OF SEALANT,PRY LID OFF,GET PUTTY KNIFE,CUT SEALANT FROM CAN, REPLACE LID ON CAN,GET SEALANT IN HAND,KNEAD SEALANT AND PLACE IN GUN,GET SEALANT CHAMBER,SCREW ON GUN,CLEAN SURFACE,REMOVE SCREW, CHECK HOLE DEPTH WITH SCALE,ADJUST PROBE REACH,INSTALL PROBE,POSITION GUN TO PROBE, CONNECT AIR HOSE,APPLY SEALANT TO FOUR LINEAR INCHES,DISCONNECT AND ASIDE GUN,REMOVE PROBE, AND INSTALL SCREW</p> <p>ENDS=WITH ASIDE SCREWDRIVER CONDITIONS=APPLICABLE TO DOW-CORNING SEALANT NO.DC-94-011 OR SIMILAR</p>
	29718					CASE 01 GET GUN,FILL,AND APPLY SEALANT TO FOUR LINEAR INCHES
	17030					02 APPLY SEALANT TO FOUR ADDITIONAL LINEAR INCHES(APPLICATION ONLY)
NAA	807	MAA	AMRANS4	MTFFIXX	VARIABLE	<p>FASTNER(ANCHORED),INSTALL RIV-NUT,MANUAL MOTIONS ONLY</p> <p>STARTS=WITH GET SQUEEZE TOOL INCLUDES=ALL MOTIONS NECESSARY TO GET SQUEEZE TOOL,POSITION TOOL FOR RIV-NUT,GET RIV-NUT, POSITION TO TOOL AND START THREAD,RUN RIV-NUT DOWN THREAD,BOTTOM RIV-NUT ON THREAD, POSITION RIV-NUT IN HOLE,APPLY PRESSURE TO SEAT NUT,RELEASE HANDLE,REACH TO CRANK KNOB,HOLD TOOL AND UNTHREAD FROM NUT</p> <p>ENDS=WITH ASIDE TCOL CONDITIONS=INCLUDES FLUSH OR FLAT HEAD TO SIZE 10-32,PROCESS TIME NOT INCLUDED.</p>
	500					CASE 01 FIRST RIV-NUT
	440					02 EACH ADDITIONAL RIV-NUT
NAA	807	MBA	OTFHMXX	STFBIXX	VARIABLE	<p>BOLT(HI-LOK),INSTALL WITH MANUAL TOOLS STARTS=WITH GET HANDFUL OF BOLTS(FIRST BOLT) OR UNPALM BOLT(ADDITIONAL BOLT) INCLUDES=ALL MOTIONS NECESSARY TO INSERT BOLT IN HOLE,GET HAMMER,DRIVE BOLT THROUGH HOLE, ASIDE HAMMER,GET COLLAR,PLACE COLLAR ON BOLT, TURN COLLAR ON THREADS BY HAND,GET SPECIAL RATCHET OR RATCHET BOX WRENCH AND ALLEN WRENCH,TIGHTEN COLLAR ON BOLT,AND BREAK COLLAR AWAY</p> <p>ENDS=WITH ASIDE TOOLS CASE 01 FIRST BOLT,BOLT AND COLLAR,NO INTERFERENCE,NOMINAL REACH AND MOVE DISTANCES=18 INCHES</p>
	973					02 EACH ADDITIONAL BOLT,BOLT AND COLLAR NO INTERFERENCE,NOMINAL REACH AND MOVE DISTANCES=18 INCHES
	757					03 FIRST BOLT,BOLT AND COLLAR,SLIGHT INTERFERENCE,NOMINAL REACH AND MOVE DISTANCES=24 INCHES
	1327					04 EACH ADDITIONAL BOLT,BOLT AND COLLAR, SLIGHT INTERFERENCE,NOMINAL REACH AND MOVE DISTANCES=24 INCHES
	1007					05 FIRST BOLT,BOLT AND COLLAR,DIFFICULT ACCESS,NOMINAL REACH AND MOVE DISTANCES=24 INCHES
	2471					06 EACH ADDITIONAL BOLT,BOLT AND COLLAR, DIFFICULT ACCESS,NOMINAL REACH AND MOVE DISTANCES=24 INCHES
	2268					

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY	SOURCE CODE	DWMSTDP-ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	807	MAA	KALSA1	STFB107	473	BOLT(HI-LOK),INSTALL,POWER TOOLS,FIRST STARTS-WITH SIMO GET OF GUN AND BOLT(S) INCLUDES-ALL MOTIONS NECESSARY TO PLACE BOLT IN HOLE,PLACE GUN TO BOLT,INSTALL BOLT,GET COLLAR(S),PLACE COLLAR ON PIN AND START ON THREADS,PLACE GUN ON COLLAR,AND TIGHTEN COLLAR ENDS-WITH ASIDE GUN
FFD	807	MAA	KALSA2	STFB108	390	BOLT(HI-LOK),INSTALL,POWER TOOLS, ADDITIONAL STARTS-WITH BOLT AND GUN IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE BOLT TO HOLE,POSITION GUN TO BOLT,INSTALL BOLT,GET COLLAR,POSITION COLLAR ON PIN,START THREADS, PLACE GUN ON COLLAR,AND TIGHTEN COLLAR ENDS-WITH GUN IN HAND
NAA	807	MBA	OTFHMRX	STFBRXX VARIABLE		BOLT(HI-LOK),REMOVE,MANUAL TOOLS STARTS-WITH GET PLIERS(FIRST)OR MOVE PLIERS TO COLLAR(ADDITIONAL) INCLUDES-ALL MOTIONS NECESSARY TO ADJUST PLIERS(CHANNEL LOCK OR SLIP JOINT),PLACE PLIERS ON COLLAR,GET ALLEN WRENCH AND PLACE IN BOLT,TURN COLLAR WITH PLIERS APPROXIMATELY FIVE THREADS,ASIDE PLIERS AND ALLEN WRENCH, UNSCREW COLLAR ONE THREAD BY HAND,ASIDE COLLAR,GET HAMMER AND DRIFT,AND DRIVE BOLT OUT ENDS-WITH ASIDE TOOLS 1744 CASE 01 FIRST BOLT,BOLT AND COLLAR,NO INTERFERENCE,NOMINAL REACH AND MOVE DISTANCES-18 INCHES 1476 02 EACH ADDITIONAL BOLT,BOLT AND COLLAR, NO INTERFERENCE,NOMINAL REACH AND MOVE DISTANCES-18 INCHES 2486 03 FIRST BOLT,BOLT AND COLLAR,SLIGHT INTERFERENCE,NOMINAL REACH AND MOVE DISTANCES-24 INCHES 2166 04 EACH ADDITIONAL BOLT,BOLT AND COLLAR, MOVE DISTANCES-24 INCHES. 3651 05 FIRST BOLT,BOLT AND COLLAR,DIFFICULT ACCESS,NOMINAL REACH AND MOVE DISTANCES-24 INCHES 3289 06 EACH ADDITIONAL BOLT,BOLT AND COLLAR, DIFFICULT ACCESS,NOMINAL REACH AND MOVE DISTANCES-24 INCHES
NAA	807	MBA	OTFHMXX	STFCIXX VARIABLE		COLLAR(HI-LOK BOLT),INSTALL,MANUAL TOOLS STARTS-WITH GET HANDFUL OF COLLARS(FIRST)OR UNPALM COLLAR(ADDITIONAL) INCLUDES-ALL MOTIONS NECESSARY TO TURN COLLAR ON THREADS BY HAND,GET SPECIAL RATCHET OR RATCHET BOX END WRENCH AND ALLEN WRENCH,PLACE TOOL(S) TO BOLT AND COLLAR,TIGHTEN COLLAR,AND BREAK AWAY COLLAR ENDS-WITH ASIDE TOOLS 706 CASE 01 FIRST COLLAR,NO INTERFERENCE,NOMINAL REACH AND MOVE DISTANCES-18 INCHES 602 02 EACH ADDITIONAL COLLAR,NO INTERFERENCE,NOMINAL REACH AND MOVE DISTANCES-18 INCHES 930 03 FIRST COLLAR,SLIGHT INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-24 INCHES 756 04 EACH ADDITIONAL COLLAR,SLIGHT INTERFERENCE,NOMINAL REACH AND MOVE DISTANCES-24 INCHES 1958 05 FIRST COLLAR,DIFFICULT ACCESS,NOMINAL REACH AND MOVE DISTANCES-24 INCHES 1804 06 EACH ADDITIONAL COLLAR,DIFFICULT ACCESS,NOMINAL REACH AND MOVE DISTANCES-24 INCHES

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MAA	OTPH4XX	STFCRXX	VARIABLE	<p>COLLAR(HI-LCK BOLT), REMOVE, MANUAL TOOLS STARTS-WITH GET PLIERS(FIRST) OR MOVE PLIERS TO COLLAR(ADDITIONAL) INCLUDES-ALL MOTIONS NECESSARY TO ADJUST PLIERS(CHANNEL LOCK OR SLIP JOINT), PLACE PLIERS ON COLLAR, GET ALLEN WRENCH AND PLACE IN BOLT, TURN COLLAR WITH PLIERS APPROXIMATELY FIVE THREADS, ASIDE TOOLS, AND UNSCREW COLLAR ONE THREAD BY HAND ENDS-WITH ASTOE COLLAR</p> <p>1317 CASE 01 FIRST COLLAR, NO INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-18 INCHES</p> <p>1227 02 EACH ADDITIONAL COLLAR, NO INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-18 INCHES</p> <p>2055 03 FIRST COLLAR, SLIGHT INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p> <p>1917 04 EACH ADDITIONAL COLLAR, SLIGHT INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p> <p>3101 05 FIRST COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p> <p>2937 06 EACH ADDITIONAL COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p>
NAA	807	MAA	AMRANS2	STFFI01	883	<p>FASTENER(ANCHORED), INSTALL DILL NUT WITH TOOL, FIRST PIECE</p> <p>STARTS-WITH GET DILL NUT TOOL INCLUDES-ALL THE MOTIONS NECESSARY TO GET DILL NUT TO CL, MOVE TO APPROXIMATE LOCATION, GET DILL NUT, MOVE NUT TO TOOL, CHECK RATCHET POSITION, MOVE TOOL WITH NUT TO HOLE, PUSH FIRM, ENGAGE RATCHET TO NUT SLOT, REGRASP AND HOLD FIRM, TIGHTEN NUT(SLEEVE), REMOVE TOOL FROM NUT, ASIDE TOOL, GET PLIERS TO NUT, CHECK NUT FOR TIGHTNESS WITH PLIERS, ASIDE PLIERS ENDS-WITH ASIDE PLIERS CONDITION-ADJUSTMENT OF RATCHET IS REQUIRED 50 PERCENT OF THE TIME. INCLUDES FLUSH OR FLAT HEAD TO SIZE 10-32</p>
NAA	807	MAA	AMRANS3	STFFI02	730	<p>FASTENER(ANCHORED), INSTALL DILL NUT WITH TOOL, ADDITIONAL PIECE</p> <p>STARTS-WITH GET DILL NUT INCLUDES-ALL MOTIONS NECESSARY TO GET DILL NUT TO TOOL, MOVE TOOL WITH NUT TO HOLE, PUSH FIRM, ENGAGE RATCHET TO NUT SLOT, REGRASP AND HOLD FIRM, TIGHTEN NUT(SLEEVE), MOVE TOOL FROM NUT, CHECK NUT FOR TIGHTNESS USING PLIERS ENDS-WITH ASIDE PLIERS CONDITIONS-INCLUDES FLUSH OR FLAT HEAD TO SIZE 10-32</p>
NAA	807	MUA	AMRANS0	STFFI03	610	<p>FASTENER(ANCHORED), INSTALL RIV-NUT, FIRST PIECE</p> <p>STARTS-WITH GET SQUEEZE TOOL INCLUDES-ALL MOTIONS NECESSARY TO GET SQUEEZE TOOL, GET RIV-NUT, SCREW RIV-NUT ON TOOL, POSITION RIV-NUT IN HOLE, SQUEEZE TOOL TO SECURE RIV-NUT, AND REMOVE TOOL FROM RIV-NUT ENDS-WITH ASIDE TOOL CONDITIONS-INCLUDES FLUSH OR FLAT HEAD TO 10-32</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRANS1	STFFI04	550	FASTENER(ANCHORED), INSTALL RIV-NUT, ADDITIONAL STARTS-WITH GET RIV-NUT, TOOL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO SCREW RIV-NUT ON TOOL, POSITION RIV-NUT IN HOLE, SQUEEZE TOOL HANDLES TO SECURE RIV-NUT, AND REMOVE TOOL FROM RIV-NUT ENDS-WITH TOOL IN HAND CONDITIONS-INCLUDES FLUSH OR FLAT HEAD TO 10-32
NAA	807	MAA	AMRAR52	STFFRXX VARIABLE	782 726	FASTENER(ANCHORED), REMOVE DILL NUT STARTS-WITH GET DILL NUT TOOL INCLUDES-ALL MOTIONS NECESSARY TO GET DILL NUT TOOL, CHECK RATCHET, ADJUST RATCHET IF NECESSARY, POSITION TOOL TO SLOT, LOOSEN NUT SLEEVE, REMOVE TOOL FROM COLLAR, ASIDE TOOL AND COLLAR ENDS-WITH ASIDE TOOL OR COLLAR CONDITION-INCLUDES FLUSH OR FLAT HEAD TO SIZE 10-32. ADJUSTMENT OF RATCHET REQUIRED 50 PERCENT OF THE TIME FOR FIRST NUT. CASE 01 FIRST DILL NUT 02 EACH ADDITIONAL DILL NUT
FFD	807	MBA	KSMBTXX	STFIBXX VARIABLE	826 1029	BOLT(HI-TORQUE), INSTALL WITH PNEUMATIC TOOL, PER BOLT STARTS-WITH GET RIVET GAUGE INCLUDES-ALL MOTIONS NECESSARY TO GAUGE HOLE DEPTH, GET BOLT, PLACE IN HOLE, GET HAMMER, SEAT BOLT, ASIDE HAMMER, START COLLAR ON BOLT BY HAND, GET PNEUMATIC TOOL, PLACE TOOL ON BOLT, TIGHTEN BOLT, SHAKE SHEARED COLLAR FROM TOOL, ASIDE TOOL, AND INSPECT INSTALLATION WITH LIGHT ENDS-WITH ASIDE LIGHT CONDITIONS-TIME FOR SET UP OF PNEUMATIC TOOL NOT INCLUDED CASE 01 INSTALL BOLT IN UNOBSTRUCTED LOCATION 02 INSTALL BOLT IN OBSTRUCTED LOCATION (INSPECTION IS PERFORMED WITH LIGHT AND MIRROR).
FFD	807	MAA	KSMBT11	STFIB03	1069	BOLT(HI-TORQUE), INSTALL WITH HAND TOOLS IN UNOBSTRUCTED LOCATION STARTS-WITH GET RIVET GAUGE INCLUDES-ALL MOTIONS NECESSARY TO GAUGE HOLE TO DETERMINE BOLT LENGTH, GET BOLT, PLACE IN HOLE, GET HAMMER, SEAT BOLT, ASIDE HAMMER, START COLLAR ON BOLT BY HAND, GET ALLEN WRENCH, GET OPEN END WRENCH, PLACE ALLEN WRENCH IN BOLT, PLACE END WRENCH ON COLLAR, TIGHTEN COLLAR, ASIDE SHEARED COLLAR, ASIDE TOOLS, AND INSPECT INSTALLATION WITH LIGHT ENDS-WITH ASIDE INSPECTION LIGHT
FFD	807	MAA	KSMBT13	STFIB04	1535	BOLT(HI-TORQUE), INSTALL WITH HAND TOOLS IN OBSTRUCTED LOCATION STARTS-WITH GET RIVET GAUGE INCLUDES-ALL MOTIONS NECESSARY TO GAUGE HOLE TO DETERMINE BOLT LENGTH, GET BOLT, PLACE IN HOLE, GET HAMMER, SEAT BOLT, ASIDE HAMMER, START COLLAR ON BOLT BY HAND, GET ALLEN WRENCH, GET OPEN END WRENCH, PLACE ALLEN WRENCH IN BOLT, PLACE END WRENCH ON COLLAR, TIGHTEN COLLAR, ASIDE SHEARED COLLAR, ASIDE TOOLS, AND INSPECT INSTALLATION WITH LIGHT AND MIRROR ENDS-WITH ASIDE LIGHT AND MIRROR

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE	CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MAA	OTFBJXX	STFIJXX VARIABLE		<p>JO-BOLT, INSTALL WITH HAND TOOL STARTS=WITH GET JO-BOLT SELECTOR GAUGE INCLUDES=ALL MOTIONS NECESSARY TO GAUGE HOLE DEPTH, ASIDE GAUGE, GET SOCKET, ASSEMBLE AND ADJUST LOCKSET, POSITION BOLT TO LOCKSET, POSITION LOCKSET AND BOLT TO HOLE, TIGHTEN UNTIL BOLT SHEARS, MOVE TOOL AND CHECK BOLT, DISASSEMBLE AND ASIDE TOOLS ENDS=WITH ASIDE TOOL CONDITION=JO-BOLT TO 3/16 INCH DIAMETER, NUT OR CCS TYPE CASE 01 FIRST JO-BOLT 02 EACH ADDITIONAL JO-BOLT</p>
NAA	807	MUA	OTFBJXX	STFJXXX VARIABLE	885 455	<p>JO-BOLT, INSTALL WITH ARO JO-BOLT GUN MODEL 7 OR SIMILAR STARTS=WITH GET JO-BOLT SELECTOR GAUGE INCLUDES=ALL MOTIONS NECESSARY TO GAUGE HOLE DEPTH, ASIDE GAUGE, GET JO-BOLT GUN, GET JO-BOLT, PLACE JO-BOLT IN LOCKSET OF GUN, POSITION GUN AND JO-BOLT TO HOLE, TIGHTEN JO-BOLT, REMOVE GUN, DISCARD SHEARED PORTION OF JO-BOLT, AND CHECK INSTALLATION ENDS=WITH ASIDE GUN CONDITIONS=APPLICABLE TO INSTALLATION OF JO-BOLT TO 3/16 INCH DIAMETER CASE 01 FIRST JO-BOLT 02 EACH ADDITIONAL JO-BOLT</p>
FFD	807	MAA	KSMJB12	STFJI03	461 209	<p>JO-BOLT, INSTALL, OBSTRUCTED, USE JO-BOLT SET STARTS=WITH GET GAUGE, GUN IN HAND INCLUDES=ALL MOTIONS NECESSARY TO DETERMINE GRIP LENGTH WITH HOOK GAUGE, ASIDE GAUGE, GET JO-BOLT, POSITION IN HOLE, GET JO-BOLT SET, POSITION TO JO-BOLT, DRIVE JO-BOLT, SHAKE SHANK FROM SET ENDS=WITH GUN IN HAND</p>
FFD	807	MUA	KSMJBXX	STFJRXXX VARIABLE	631 2819 2190 1333 704	<p>JO-BOLT, REMOVE STARTS=WITH GET DRILL MOTOR INCLUDES=ALL MOTIONS NECESSARY TO GET AND INSTALL DRILL BIT, CONNECT AIR HOSE, MOVE DRILL TO JO-BOLT, DRILL JO-BOLT HEAD, REMOVE DRILL BIT, DISCONNECT AIR HOSE, ASIDE DRILL BIT AND DRILL MOTOR, GET HAMMER, GET PUNCH, PLACE PUNCH TO DRILLED HEAD, DRIVE OUT SHANK, ASIDE HAMMER, GET PLIERS, PULL DRILLED HEAD FROM PUNCH AND ASIDE, ASIDE PLIERS, ASIDE PUNCH, GET SHANK, AND ASIDE TO TRASH ENDS=WITH RELEASE SHANK CASE 01 REMOVE FIRST STEEL JO-BOLT 02 REMOVE EACH ADDITIONAL STEEL JO-BOLT 03 REMOVE FIRST ALUMINUM JO-BOLT 04 REMOVE EACH ADDITIONAL ALUMINUM JO-BOLT</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE	SOURCE CODE	DWMSTD P ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MAA	OTFBJXX	STFRJXX	VARIABLE	<p>JO-BOLT, REMOVE STARTS-WITH GET DRILL MOTOR INCLUDES-ALL MOTIONS NECESSARY TO GET DRILL MOTOR, INSTALL DRILL, POSITION DRILL TO BOLT, DRILL OUT BOLT, GET NUT ON DRILL, REMOVE NUT WITH CARE, ASIDE NUT, GET PLIERS TO NUT, ACTUATE MOTOR TO SPIN OUT NUT, ASIDE NUT AND DRILL; OR GET E-Z OUT, ADJUST AND POSITION TO NUT, SEAT FIRMLY ON NUT, REMOVE NUT, DISENGAGE NUT FROM E-Z OUT, ASIDE NUT AND E-Z OUT</p> <p>ENDS-WITH ASIDE TOOLS CONDITION-APPLIES TO JO-BOLT TO 3/16 INCH DIAMETER, NUT OR CCS TYPE</p>
				1222		CASE 01 REMOVE FIRST JO-BOLT USING DRILL WITH STRAIGHT CHUCK, E-Z OUT NOT REQUIRED
				617		02 REMOVE EACH ADDITIONAL JO-BOLT USING DRILL WITH STRAIGHT CHUCK, E-Z OUT NOT REQUIRED
				1598		03 REMOVE FIRST JO-BOLT USING DRILL WITH STRAIGHT CHUCK, USE OF E-Z OUT REQUIRED
				657		04 REMOVE EACH ADDITIONAL JO-BOLT USING DRILL WITH STRAIGHT CHUCK, USE OF E-Z OUT REQUIRED
				1423		05 REMOVE FIRST JO-BOLT USING DRILL WITH 90 DEGREE CHUCK, E-Z OUT NOT REQUIRED
						06 REMOVE EACH ADDITIONAL JO-BOLT USING DRILL WITH 90 DEGREE CHUCK, E-Z OUT NOT REQUIRED
				1781		07 REMOVE FIRST JO-BOLT USING DRILL WITH 90 DEGREE CHUCK, USE OF E-Z OUT REQUIRED
				1002		08 REMOVE EACH ADDITIONAL JO-BOLT USING DRILL WITH 90 DEGREE CHUCK, USE OF E-Z OUT REQUIRED
NAA	807	MBA	AMRORXX	STLACXX	VARIABLE	<p>AREA(DAMAGED), CUT AWAY, ALUMINUM ALLOY TO .064 INCH THICKNESS, CIRCULAR AREA STARTS-WITH VISUALLY EXAMINE DAMAGED AREA INCLUDES-ALL MOTIONS NECESSARY TO MEASURE SIZE OF AREA TO BE CUT AWAY, MARK OUTLINE OF PATCH, SET UP AIR POWERED DRILL, DRILL PILOT HOLE, COUNTERBORE FOR ACCESS BY SNIPS, CUT AWAY DAMAGED AREA WITH COMPOUND LEVER SNIPS, SET UP DRILL WITH ROTARY FILE, CUT TO LINE WITH ROTARY FILE, AND FINAL DRESS HOLE WITH HAND FILE AND EMERY CLOTH</p> <p>ENDS-WITH ASIDE TOOLS CONDITIONS-USE OF DRILL TO PILOT DRILL AND COUNTERBORE COMPUTED AT 30% OCCURRENCE</p>
				19280		CASE 01 REMOVE EXTERNAL SURFACE DAMAGE, TO 4 INCHES DIAMETER
				31000		02 REMOVE EXTERNAL SURFACE DAMAGE, 4-7 INCHES DIAMETER
				42840		03 REMOVE EXTERNAL SURFACE DAMAGE, 7-10 INCHES DIAMETER
				55170		04 REMOVE EXTERNAL SURFACE DAMAGE, 10-13 INCHES DIAMETER
				67250		05 REMOVE EXTERNAL SURFACE DAMAGE, 13-16 INCHES DIAMETER

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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NAA	807	TUA	AMRMMXX	STLASXX VARIABLE		<p>ALUMINUM,SAW WITH JEWELER'S OR SKIN SAW,PER STRAIGHT LINEAR INCH</p> <p>STARTS=WITH GET SAW</p> <p>INCLUDES=ALL MOTIONS NECESSARY TO POSITION SAW TO CUTTING POINT AND CUT ONE STRAIGHT LINEAR INCH</p> <p>ENDS=WITH ASIDE SAW</p> <p>CONDITIONS=*ADDITIONAL INCH* CASES INCLUDE CUTTING PROCESS TIME ONLY</p> <p>200 CASE 01 FIRST LINEAR INCH, MATERIAL .032=.045 INCH THICKNESS</p> <p>90 02 EACH ADDITIONAL LINEAR INCH, MATERIAL .032=.045 INCH THICKNESS</p> <p>230 03 FIRST LINEAR INCH, MATERIAL .046=.064 INCH THICKNESS</p> <p>120 04 EACH ADDITIONAL LINEAR INCH, MATERIAL .046=.064 INCH THICKNESS</p> <p>290 05 FIRST LINEAR INCH, MATERIAL .065=.100 INCH THICKNESS</p> <p>180 06 EACH ADDITIONAL LINEAR INCH, MATERIAL .065=.100 INCH THICKNESS</p>
NAA	807	MRA	AMRDRXX	STLCAXX VARIABLE		<p>AREA(DAMAGED),CUT AWAY,ALUMINUM ALLOY TO .064 INCH THICKNESS,RECTANGULAR AREA</p> <p>STARTS=WITH VISUAL EXAMINATION OF DAMAGED AREA</p> <p>INCLUDES=ALL MOTIONS NECESSARY TO MEASURE AND MARK AREA TO BE CUT,CENTER PUNCH FOUR CORNERS FOR DRILLING,SET UP AIR POWERED DRILL,PILOT DRILL AND COUNTERBORE CORNERS,CUT AWAY DAMAGED AREA WITH SNIPS,AND FINAL DRESS WITH FILE AND EMERY CLOTH</p> <p>ENDS=WITH ASIDE TOOLS</p> <p>26580 CASE 01 REMOVE EXTERNAL SURFACE DAMAGE TO 16 INCHES PERIMETER</p> <p>42110 02 REMOVE EXTERNAL SURFACE DAMAGE 16=28 INCHES PERIMETER</p> <p>57650 03 REMOVE EXTERNAL SURFACE DAMAGE 28=40 INCHES PERIMETER</p> <p>73190 04 REMOVE EXTERNAL SURFACE DAMAGE 40=52 INCHES PERIMETER</p> <p>88730 05 REMOVE EXTERNAL SURFACE DAMAGE 52=64 INCHES PERIMETER</p>
NAA	807	MAA	SMRDRXX	STLDRXX VARIABLE		<p>DENT,REMOVE FROM ALUMINUM TO .064 INCH THICKNESS,PER SQUARE INCH</p> <p>STARTS=WITH GET PART</p> <p>INCLUDES=ALL MOTIONS NECESSARY TO MOVE PART TO WORK AREA,GET WEIGHT AND PLACE ON PART,GET BACK-UP BAR,POSITION TO DENT,GET HAMMER,STRIKE FOUR BLOWS TO DENT AREA,MAKE VISUAL EXAMINATION AFTER EACH HAMMER BLOW,ASIDE HAMMER,FEEL PART WITH HAND TO CHECK SMOOTHNESS,ASIDE BACK-UP BAR,AND ASIDE WEIGHT</p> <p>ENDS=WITH ASIDE PART</p> <p>801 CASE 01 FIRST SQUARE INCH OF DENT</p> <p>530 02 FIRST SQUARE INCH OF ADDITIONAL DENT</p> <p>363 03 EACH ADDITIONAL SQUARE INCH OF SAME DENT</p>
NF	809	MAF	1272/73	4JPTSXX VARIABLE		<p>TRAMMEL,SET TO SCALE</p> <p>STARTS=WITH HAND ON TRAMMEL</p> <p>INCLUDES=ALL MOTIONS NECESSARY TO MOVE TRAMMEL TO SCALE,POSITION FIRST POINT,LOOSEN LOCK SCREW,MOVE SECCND POINT ALONG TRAMMEL,POSITION POINT TO SCALE,VISUALLY CHECK,AND TIGHTEN LOCK SCREW</p> <p>ENDS=WITH MOVE TRAMMEL ASIDE</p> <p>209 CASE 01 SET 1-MAN TRAMMEL</p> <p>295 02 SET 2-MAN TRAMMEL(TIME VALUE FOR TWO OPERATORS)</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	809	MAF	1078	MTLDU01	152	DIVIDERS, USE TO SCRIBE 90-DEGREE ARC STARTS=WITH DIVIDERS IN HAND INCLUDES=ALL MOTIONS NECESSARY TO MOVE POINT OF DIVIDERS TO CENTERPOINT, POSITION SCRISING POINT, SCRIBE 90-DEGREE ARC, MOVE DIVIDERS AWAY, AND VISUALLY CHECK WORK ENDS=WITH DIVIDERS IN HAND CONDITION=APPLICABLE TO SCRIBING ARC TO 16-INCH RADIUS
NF	809	MAF	1112	MTLTU01	328	TRAMMEL, USE TO SCRIBE 90-DEGREE ARC, ONE OPERATOR, 36-INCH RADIUS STARTS=WITH SIDESTEP TO MOVE TRAMMEL TO WORK INCLUDES=ALL MOTIONS NECESSARY TO POSITION POINT TO PUNCH MARK, SIDESTEP TO SCRIBING END OF TRAMMEL, AND SCRIBE ARC ENDS=WITH SIDESTEP TO CENTER POINT
AE	81X	MAW	SWDEAHL	MACAA01	55	AMPERAGE, ADJUST ON AC OR DC WELDING MACHINE STARTS=WITH REACH TO CONTROL INCLUDES=ALL MOTIONS NECESSARY TO GRASP CONTROL, LOCATE SETTING, APPLY PRESSURE, MOVE TO SETTING, CHECK SETTING AND RELEASE CONTROL ENDS=WITH RELEASE CONTROL CONDITIONS=DIAL MOVED APPROXIMATELY 12 INCHES
NO	81X	MAO	LFAIW	MACCA01	56	CONTROLS(HEAT), ADJUST ON WELDING MACHINE STARTS=WITH REACH TO FIRST CONTROL INCLUDES=ALL MOTIONS NECESSARY TO TURN TWO CONTROL HANDLES TO NEW SETTINGS ENDS=WITH RELEASE SECOND CONTROL HANDLE CONDITIONS=CONTROL HANDLES TURNED APPROXIMATELY 45 DEGREES
NF	81X	MAF	2138	MACKD01	93	KNOB, OPEN ON ACETYLENE TORCH TIP STARTS=WITH REACH TO TIP HANDLE INCLUDES=ALL MOTIONS NECESSARY TO OBTAIN TORCH TIP FROM HANGER, GET KNOB, LOOSEN, AND TURN KNOB TO OPEN VALVE ENDS=WITH RELEASE OF KNOB
AE	81X	MAW	SWDEAG1	MACMT01	74	MACHINE(WELDING), TURN ON OR OFF STARTS=WITH BEND TO SWITCH OR BUTTON INCLUDES=ALL MOTIONS NECESSARY TO BEND TO SWITCH OR BUTTON, ACTUATE SWITCH OR BUTTON, AND ARISE ENDS=WITH ARISE FROM BEND
AE	81X	MAW	SWDEAS1	MACVT01	69	VALVE(ACETYLENE AND OXYGEN), TURN OFF STARTS=WITH REACH TO ACETYLENE VALVE INCLUDES=ALL MOTIONS NECESSARY TO CLOSE ACETYLENE VALVE, REACH TO AND CLOSE OXYGEN VALVE ENDS=WITH RELEASE OF VALVE
NF	81X	MAF	1256	MCLSCXX VARIABLE	717	SLAG, CHIP WITH CHIPPING HAMMER, CHISEL, AND BRUSH STARTS=WITH SIMO REACH TO HAMMER AND CHISEL INCLUDES=ALL MOTIONS NECESSARY CHIP SLAG WITH HAMMER AND CHISEL, ASIDE HAMMER AND CHISEL, GET WIRE BRUSH, AND BRUSH OFF SLAG ENDS=WITH ASIDE BRUSH CONDITIONS=GENERALLY APPLICABLE TO REMOVAL OF SLAG AFTER BURNING OR CUTTING OPERATION CASE 01 FIRST LINEAR FOOT 02 EACH ADDITIONAL LINEAR FOOT(WITHOUT GET AND ASIDE TOOLS)
					588	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY SOURCE	SOURCE CODE	DWMSDTP-ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	81X	MAF	1251	MCLSKXX VARIABLE	416 301	SCALE,KNOCK FROM WELD WITH HAMMER AND BRUSH STARTS=WITH GET HAMMER INCLUDES=ALL MOTIONS NECESSARY TO TAP WELD WITH HAMMER ONCE PER INCH TO LOOSEN SCALE, ASIDE HAMMER,GET BRUSH,AND BRUSH SCALE AWAY ENDS=WITH ASIDE BRUSH CASE 01 FIRST LINEAR FOOT OF WELD 02 EACH ADDITIONAL LINEAR FOOT OF WELD
NO	81X	MAO	LHWIW/Y	MCLSRXX VARIABLE	136 52	SLAG,REMOVE WITH CHIPPING HAMMER STARTS=WITH GET TOOL INCLUDES=ALL MOTIONS NECESSARY TO POSITION TOOL,STRIKE AND CHIP SLAG,CHECK SURFACE AND MOVE TOOL ASIDE ENDS=WITH RELEASE OF TOOL CONDITIONS=GENERALLY APPLICABLE TO REMOVING SLAG AFTER BURNING OR GOUGING OPERATION CASE 01 FIRST OR SINGLE INCH OF SLAG CHIPPED 02 EACH ADDITIONAL INCH OF SLAG CHIPPED
NO	81X	MAO	LHWIN2	MCLSS01	30	SPATTER,SCRAPE PER INCH OF WELD STARTS=WITH SCRAPER POSITIONED FOR USE INCLUDES=ALL MOTIONS NECESSARY TO SCRAPE SPATTER FROM ONE INCH OF WELD ENDS=WITH ONE INCH OF WELD CLEANED
NAA	81X	MAA	OTLWSXX	MCLJCXX VARIABLE	143 80	TIP,CLEAN WITH SANDPAPER,WELDING GUN STARTS=WITH GET SANDPAPER,TIP IN HAND INCLUDES=ALL MOTIONS NECESSARY TO USE SANDPAPER TO CLEAN WELDING GUN TIP ENDS=WITH ASIDE SANDPAPER CASE 01 ROLLER TIP GUN 02 POINTER TIP GUN
NF	81X	MAF	1270	MCLTC03	224	TIP,CLEAN WITH EMERY CLOTH WRAPPED AROUND FILE,SPOT WELDER STARTS=WITH TOOL IN HAND INCLUDES=ALL MOTIONS NECESSARY TO USE EMERY TO CLEAN TWO ELECTRODE TIPS ENDS=WITH FILE AND EMERY IN HAND
FFD	81X	TBA	KWLPTSB	MCLTD01	728	TIP(ELECTRODE=WELDER),DRESS STARTS=WITH REACH TO GET DRESSING BOARD INCLUDES=ALL THE MOTIONS NECESSARY TO GET DRESSING BOARD,DRESS TIP TO A SMOOTH FINISH AND ASIDE BOARD ENDS=WITH ASIDE DRESSING BOARD
NO	81X	MAC	LFAIR1	MGMPC01	143	PART,CHECK FOR WARPAGE WITH 12-INCH SCALE STARTS=WITH REACH TO SCALE INCLUDES=ALL MOTIONS NECESSARY TO GET SCALE, BEND,POSITION SCALE TO PART,VISUALLY CHECK PART FOR WARPAGE,ARISE AND ASIDE SCALE ENDS=WITH RELEASE OF SCALE
FFD	81X	MAA	KWLNUAD	MJPCC01	546	CABLE(ELECTRODE HOLDER),CONNECT/DISCONNECT TO/FROM ARC WELDER STARTS=WITH REACH TO GET HOLDER CABLE INCLUDES=ALL THE MOTIONS NECESSARY TO GET HOLDER,STOOP TO WELDER,INSERT CABLE INTO WELDER,ARISE,STOOP,GRASP AND REMOVE CABLE, ARISE ENDS=WITH HOLDER IN HAND CONDITIONS=INCLUDES TIME FOR BOTH CONNECT AND DISCONNECT

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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AF	81X	MAA	636	MJPEC01	350	ELECTRODE(TUNGSTEN),CHANGE IN TORCH STARTS-WITH TORCH AND ELECTRODE IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO LOOSEN ELECTRODE SECURING NUT,SCREW OFF NUT,PALM NUT, REMOVE ELECTRODE,ASIDE TO WORKBENCH(NUT AND ELECTRODE),PICK UP NEW ELECTRODE ON WORKBENCH, INSERT ELECTRODE,GET SECURING NUT FROM BENCH AND INSTALL ON TORCH TIP ENDS-WITH RELEASE OF NUT
AF	81X	MAW	SWDEARI	MJPFA01	94	FLAME,ADJUST ON HAND TORCH STARTS-WITH REACH TO KNOB ON OXYGEN VALVE INCLUDES-ALL MOTIONS NECESSARY TO TURN OXYGEN VALVE,TURN ACETYLENE VALVE KNOB,FOCUS EYES,ADJUST OXYGEN VALVE AND CHECK FLAME ENDS-WITH RELEASE VALVE
NO	81X	MAO	LHWIZ	MJPGP01	110	GOOGLES(BURNING),PUT ON AND REMOVE STARTS-WITH REACH TO GOOGLES ON TOP OF HEAD INCLUDES-ALL MOTIONS NECESSARY TO MOVE AND ADJUST GOOGLES OVER EYES;REACH TO GOOGLES AND MOVE THEM TO TOP OF HEAD ENDS-WITH RELEASE GOOGLES CONDITIONS-WELDING TORCH HELD IN ONE HAND WHILE PUTTING ON AND TAKING OFF GOOGLES
FFD	81X	MAA	KWLSTA	MJPHA01	954	HOSES(OXYGEN AND ACETYLENE),ATTACH AND REMOVE TO/FROM TORCH STARTS-WITH REACH TO TOOL INCLUDES-ALL THE MOTIONS NECESSARY TO GET TOOL,GET HOSES,PLACE TO TORCH,TIGHTEN NUT TO HOLD HOSE ON TORCH WITH WRENCH,LOOSEN NUT, REMOVE HOSES AND ASIDE TORCH ENDS-WITH ASIDE TOOL
NF	81X	MAF	4012/13	MJPJP01	435	JACKET(WELDERS),PUT ON AND TAKE OFF STARTS-WITH JACKET IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PUT JACKET ON,ZIP UP,UNZIP,AND REMOVE JACKET ENDS-WITH JACKET IN HAND
FFD	81X	MAA	KWLUXX	MJPRCXX VARIABLE	161 85	ROD(WELDING),CHANGE IN ELECTRODE HOLDER STARTS-WITH REACH TO ELECTRODE HOLDER AND LEAD INCLUDES-ALL THE MOTIONS NECESSARY TO GET ROD HOLDER,GET ROD,INSTALL ROD IN HOLDER(HELD WITH CLAMP),ASIDE HOLDER AFTER USE ENDS-WITH ASIDE HOLDER CASE 01 CHANGE FIRST ROD 02 CHANGE EACH ADDITIONAL ROD(DOES NOT INCLUDE GET AND ASIDE HOLDER)
AF	81X	MAA	640	MJPRR01	83	REGULATOR,READJUST,TWO TANKS STARTS-WITH REACH TO REGULATOR INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP REGULATOR HANDLE AND TURN,ADJUST,REACH TO SECCND REGULATOR HANDLE,TURN HANDLE TO ADJUST, RELEASE HANDLE ENDS-WITH RELEASE HANDLE CONDITIONS-APPLICABLE TO ADJUSTING PRESSURE REGULATORS ON TWO OXY-ACETYLENE WELDING TANKS
FFF	81X	MAA	MJPCE04	MJPSP01	173	SHIELD(WELDING),PUT ON AND REMOVE STARTS-WITH REACH TO PROTECTIVE SHIELD INCLUDES-ALL MOTIONS NECESSARY TO GET WELDERS PROTECTIVE SHIELD,PUT SHIELD ON AND LOWER COVER OVER FACE;AND REMOVE AND ASIDE SHIELD ENDS-WITH ASIDE SHIELD CONDITIONS-DOES NOT INCLUDE TIME FOR ADJUSTING HEADBAND

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DATA SOURCE	OCCUP-ATION	QUALITY SOURCE CODE	DMWSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AF	81X	MAA	261	MJPSR01	76 SHIELD(WELDING),RAISE AND LOWER STARTS=WITH REACH TO HOOD(ON HEAD) INCLUDES ALL THE MOTIONS NECESSARY TO GRASP AND LOWER HOOD(SHIELD)INTO POSITION TO WELD, RELEASE HOOD,REACH,GRASP,RAISE AND RELEASE HOOD ENDS=WITH RELEASE HOOD(SHIELD)
NF	81X	MAF	2685	MJP TD01	251 TIP(TORCH),DETACH BY HAND STARTS=WITH REACH TO TORCH INCLUDES=ALL MOTIONS NECESSARY TO GET TORCH, SCREW TIP OFF BY HAND,AND PLACE TIP ASIDE ENDS=WITH RELEASE OF TIP
NF	81X	MAF	3043	MJP TD02	104 TIP(ELECTRODE),DETACH FROM SPOTWELDER STARTS=WITH REACH TO TIP,HAMMER IN OTHER HAND INCLUDES=ALL MOTIONS NECESSARY TO TAP ELECTRODE TIP WITH HAMMER TO LOOSEN,AND REMOVE TIP ENDS=WITH TIP AND HAMMER IN HAND
NF	81X	MAF	3345	MJP TI01	121 TIP(ELECTRODE),INSTALL ON SPOTWELDER STARTS=WITH TIP AND HAMMER IN HAND INCLUDES=ALL MOTIONS NECESSARY TO MOVE TIP TO ELECTRODE,POSITION,AND TAP WITH HAMMER ENDS=WITH HAMMER IN HAND
FFE	81X	MAA	GTLTAA1	MJP TL01	67 TORCH(ACETYLENE),LIGHT WITH FRICTION TYPE IGNITER STARTS=WITH TORCH IN HAND-GAS VALVE OPEN INCLUDES=ALL MOTIONS NECESSARY TO GET IGNITER, PLACE IGNITER TO TORCH,STRIKE IGNITER ONE TIME,AND ASIDE IGNITER ENDS=WITH RELEASE OF IGNITER
NF	81X	MAF	2358	MJP TR01	119 TENSION,RELEASE ON OXY-ACETYLENE WELDING REGULATOR STARTS=WITH REACH TO HANDLE INCLUDES=ALL THE MOTIONS NECESSARY TO TURN REGULATOR HANDLE TO RELEASE TENSION,RELEASE HANDLE ENDS=WITH RELEASE HANDLE
NF	81X	MAF	2357	MJP VT01	321 VALVE(OXY-ACETYLENE CYLINDER),TURN OFF STARTS=WITH WRENCH IN HAND,STANDING AT CYLINDER INCLUDES=ALL THE MOTIONS NECESSARY TO POSITION WRENCH ON CYLINDER VALVE,TURN WRENCH FOUR TIMES(EIGHT INCH MOVE)TO TURN VALVE OFF ENDS=WITH VALVE TURNED OFF,WRENCH IN HAND ON VALVE
FFD	81X	TAA	KWLPTSA	MJP WP01	5206 WELDER(SPOT),PREPARE(ADJUST HEAT) STARTS=WITH HAND ON CONTROL DIALS INCLUDES=ALL THE MOTIONS NECESSARY TO ADJUST TEMPERATURE AND PRESSURE CONTROLS TO DESIRED OPERATING RANGE ENDS=WITH WELDER READY TO OPERATE-HANDS ON CONTROL CONDITIONS=INCLUDES ALL NECESSARY ADJUSTMENTS AND PREHEAT TIME
FFD	81X	MAA	KWL SUTB	SJPTC01	669 TIP(OXY-ACETYLENE TORCH),CHANGE WITH WRENCH STARTS=WITH REACH TO OPEN TOOL BOX INCLUDES=ALL MOTIONS NECESSARY TO GET WRENCH AND TIP FRM OPEN TOOL BOX,PLACE TIP IN WORK AREA,GET TORCH,REMOVE TIP NUT,ASIDE TIP,GET NEW TIP,PLACE ON TORCH,TIGHTEN TIP NUT,ASIDE TORCH,AND ASIDE WRENCH ENDS=WITH RELEASE OF WRENCH

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NAA	81X	MRA	SHLEVW1	SJPTGXX VARIABLE		TIP(ELECTRODE),GRIND STARTS=WITH REACH TO BENCH DRAWER INCLUDES=ALL THE MOTIONS NECESSARY TO OPEN DRAWER,GET BOX OF ELECTRODE TIPS OUT OF DRAWER AND CLOSE DRAWER,TURN ON GRINDER,GET TIP FROM BOX,POSITION TO GRINDING WHEEL,MOVE TIP TO GRIND,DIP TIP IN WATER AFTER GRINDING,EXAMINE TIP,REGRIND TIP WHEN REQUIRED,PLACE TIP IN BOX AND TURN OFF GRINDER,PLACE BOX OF TIPS ON BENCH ENDS=WITH PLACE BOX OF TIPS ON BENCH CASE 01 GRIND FIRST OR SINGLE TIP 02 GRIND EACH ADDITIONAL TIP 03 REGRIND WHEN REQUIRED
NL	81X	MAP	SJPTL01	SJPTL01	349	TORCH(OXY-ACETYLENE),LIGHT AND TURN OFF STARTS=WITH REACH TO TORCH INCLUDES=ALL MOTIONS NECESSARY TO OBTAIN TORCH FROM HANGER,OPEN ACETYLENE VALVE,GET IGNITER,LIGHT TORCH,ASIDE IGNITER,OPEN OXYGEN VALVE,ADJUST FLAME;AND TURN VALVES OFF ENDS=WITH ASIDE TORCH TO HANGER
NAA	81X	MUA	OTLWSAXX	SNFSWXX VARIABLE		SPOT(OR SEAM),WELD STARTS=WITH GET GROUND CABLE INCLUDES=ALL MOTIONS NECESSARY TO ATTACH GROUND CABLE,PUT ON GLOVES,GET METAL AND POSITION FOR WELDING,GET WELDING GUN,WELD, ASIDE GUN,AND REMOVE GLOVES ENDS=WITH REMOVE AND ASIDE GROUND CABLE CASE 01 WELD FIRST TWO INCH SEAM IN STAINLESS STEEL FOIL TO .004 INCH WITH ROLLER TIP GUN 02 EACH ADDITIONAL TWO INCH SEAM IN STAINLESS STEEL FOIL TO .004 INCH WITH ROLLER TIP GUN 03 WELD FIRST TWO SPOTS IN STAINLESS STEEL TO .010 INCH WITH POINTER TIP GUN 04 EACH ADDITIONAL SPOT IN STAINLESS STEEL TO .010 INCH WITH POINTER TIP GUN
FFD	81X	MAA	KWLSPXX	SNFWAXX VARIABLE		WELD(SPOT),ACCOMPLISH STARTS=WITH REACH TO MAIN SWITCH INCLUDES=ALL THE MOTIONS AND TIME NECESSARY TO TURN ON MAIN SWITCH,PUT ON AND REMOVE APRON, GLOVES(LOOSE FIT),FACE SHIELD,REMOVE BOTH ELECTRODES,INSTALL ELECTRODES,DRESS TIP,TURN MACHINE ON,PREPARE SPOT WELDER(ADJUST HEAT), GET PART,WELD SPOT,ASIDE PART,TURN OFF MACHINE ENDS=WITH REMOVE PROTECTIVE CLOTHING CASE 01 SPOT WELD FIRST OR SINGLE SPOT 02 SPOT WELD EACH ADDITIONAL SPOT WITH ONE TO THREE INCH SPACING
NAA	81X	MUA	OTLWSXX	SNFWSXX VARIABLE		SPOT(OR SEAM),WELD ON SCIAKY STATIONARY WELDING MACHINE STARTS=WITH GET PART INCLUDES=ALL MOTIONS NECESSARY TO MOVE PART IN POSITION FOR WELDING,WELD SPOT OR SEAM,AND REMOVE PART ENDS=WITH ASIDE PART CASE 01 WELD ONE SPOT ON MID-RANGE REPEAT CYCLE,ALUMINUM OR STEEL TO .090 INCH THICKNESS 02 WELD FIRST TWO INCH SEAM,ALUMINUM OR STEEL TO .050 INCH THICKNESS,MACHINE SPEED 20 INCHES PER MINUTE 03 EACH ADDITIONAL TWO INCHES OF SEAM, ALUMINUM OR STEEL TO .050 INCH,MACHINE SPEED 20 INCHES PER MINUTE

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AE	8IX	MAW	SWDEAN1	MOHTP01	355	TANK,PUT ON HAND TRUCK STARTS=WITH REACH TO HAND TRUCK HANDLES INCLUDES=ALL MOTIONS NECESSARY TO GET HAND TRUCK,TILT TRUCK AND WALK THREE PACES TO MOVE TRUCK TO DESIRED POSITION,RELEASE TRUCK,REACH TO TANK,TIP TANK TO SIDE,MOVE HAND TRUCK UNDER TANK,GET TRUCK HANDLES AND TILT TRUCK WITH LOAD TAKING TWO STEPS TO BALANCE HAND TRUCK ENDS=WITH TANK BALANCED ON HAND TRUCK
AF	8IX	MAW	SWDEAN1	MOHTR01	126	TANK,REMOVE FROM HAND TRUCK STARTS=WITH RELEASE HANDLES OF HAND TRUCK INCLUDES=ALL MOTIONS NECESSARY TO TILT TANK, PULL HAND TRUCK FROM UNDER TANK AND SET TANK DOWN ENDS=WITH RELEASE TANK
FFD	8IX	TAA	KWLPTSC	BPTSW01	68	SPOT,WELD STARTS=WITH MATERIAL IN POSITION TO WELD INCLUDES=ALL THE TIME NECESSARY TO WELD ONE SPOT WITH SPOT WELDER ENDS=WITH SPOT WELDED AND READY TO MOVE MATERIAL TO NEXT SPOT CONDITIONS=TIME IS NOT INCLUDED TO MOVE MATERIAL ON OR OFF SPOT
AF	8IX	MAA	604	MSUCA01	187	CYCLE DIALS(SPOT WELDING MACHINE),ADJUST STARTS=WITH REACH TO DIAL INCLUDES=ALL THE MOTIONS NECESSARY TO GRASP AND TURN FIRST DIAL,CHECK FOR PROPER SETTING, TURN "HOLD" DIAL AND CHECK FOR PROPER SETTING, TURN "OFF" DIAL AND CHECK FOR PROPER SETTING, TURN IGNITION SWITCH ON,RELEASE SWITCH ENDS=WITH RELEASE IGNITION SWITCH
NAA	8IX	MUA	OTLWSXX	SSUMS01	3995	MACHINE(WELDING),SET UP,SCIAKY OR SIMILAR AND TEST WELD THREE SPOTS STARTS=WITH TURN AND WALK TO LEFT HAND PANEL INCLUDES=ALL MOTIONS NECESSARY TO ADJUST THREE DIALS,RETURN THREE PACES TO WELD POSITION,TURN AND WALK THREE PACES TO RIGHT HAND PANEL,ADJUST AIR PRESSURE,ADJUST ELECTRICAL CONTACT PRESSURE,RETURN TO WELD POSITION,ACTUATE "RAISE" SWITCH,CLEAN ELECTRODES,ACTUATE "LOWER" SWITCH,GET AIR HOSE AND BLOW OFF ELECTRODES,ASIDE AIR HOSE,GET TEST STRIPS,WELD THREE SPOTS,VISUALLY CHECK SPOTS,ASIDE STRIPS,GET TEST STRIPS AND WELD-TH BANK,ASIDE STRIP,GET TEST STRIPS AND WELD-TH BANK,GET "TH STRIP",CARRY THREE PACES TO TENSION TESTER,PERFORM TENSION TEST ON EACH OF TWO WELDS,AND RETURN TO WELD POSITION ENDS=WITH SETUP AND TESTS COMPLETE CONDITIONS=ALUMINUM OR STEEL TO .090 INCH THICKNESS

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	81X	MAA	OTLWSXX	SSUMS02	3461	MACHINE(WELDING),SET UP,SCIAKY OR SIMILAR AND TEST WELD ONE TWO INCH SEAM STARTS-WITH TURN AND WALK TO LEFT HAND PANEL INCLUDES-ALL MOTIONS NECESSARY TO ADJUST THREE DIALS,RETURN THREE PACES TO WELD POSITION;TURN TO RIGHT SIDE PANEL,ADJUST AIR PRESSURE AND ELECTRICAL CONTACT PRESSURE,TURN AND WALK ONE PACE TO RIGHT HAND PANEL,ADJUST MOTOR SPEED RHEOSTAT,RETURN TO WELD POSITION,CLEAN TOP AND BOTTOM WHEELS WITH SANDPAPER,WIPE WHEELS WITH CLOTH TO REMOVE DUST,TURN,GET TEST STRIPS, TURN,PLACE STRIPS TO WHEELS,WELD TWO INCH SEAM,VISUALLY CHECK SEAM,GET PLIERS,BEND EACH STRIP 90 DEGREES,ASIDE PLIERS,ATTACH CLAMPS, PERFORM SHEAR TEST,AND REMOVE CLAMPS ENDS-WITH ASIDE STRIP CONDITIONS=ALUMINUM OR STEEL TO .050 INCH THICKNESS
NO	81X	MAO	LHWIFI	MTPT01	119	TOOL,INSERT AND REMOVE,AIR HAMMER STARTS-WITH REACH TO TOOL INCLUDES-ALL MOTIONS NECESSARY TO GET TOOL,POSITION AND INSERT IN AIR HAMMER;REACH TO TOOL,DISENGAGE AND ASIDE TOOL ENDS-WITH RELEASE OF TOOL
FFD	810	MAA	KWL SUTE	MJPEG01	221	ELECTRODE(HELI-ARC WELDING),GRIND STARTS-WITH REACH TO SWITCH INCLUDES-ALL THE MOTIONS NECESSARY TO TURN ON PEDESTAL GRINDER,GRIND ELECTRODE,INSPECT TIP,TURN OFF GRINDER ENDS-WITH TURN OFF GRINDER
FFD	810.	MAA	KWL SUAA	MJPMS01	303	MACHINE(ARC WELDING),SET UP STARTS-WITH STOOP TO WELDING MACHINE INCLUDES-ALL THE MOTIONS NECESSARY TO STOOP, TURN MACHINE ON,SET RANGE CONTROL DIAL FOR CORRECT HEAT RANGE,GET AND ATTACH GROUND CLAMP TO WORK AND GROUND,REMOVE AND ASIDE CLAMP, ARISE FROM STOOP ENDS-WITH ARISE FROM STOOP
FFD	810	MAA	KWL SUAE	MJPPC01	293	POLARITY(ARC WELDING MACHINE),CHANGE STARTS-WITH BEND TO MACHINE INCLUDES-ALL THE MOTIONS NECESSARY TO REMOVE AND EXCHANGE NEGATIVE AND POSITIVE LEADS ENDS-WITH ARISE FROM BEND
FFD	810	MAA	KWL SUXX	SJPECXX VARIABLE	1100	ELECTRODE(HELI-ARC WELDING),CHANGE STARTS-WITH HOLDER IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND REMOVE CAP,ASIDE CAP,GET AND ASIDE COLLET AND ELECTRODE,REMOVE AND ASIDE CUP,LOSEN COLLET HOLDER,PLACE COLLET IN TORCH,PLACE ELECTRODE IN TORCH,SCREW IN CUP AND TIGHTEN, SCREW CAP ON AND PLACE ELECTRODE TO WORK PIECE ENDS-WITH ELECTRODE IN POSITION TO WELD CASE 01 REMOVE ELECTRODE OF ONE SIZE,REPLACE WITH ELECTRODE OF ANOTHER SIZE CASE 02 REMOVE ELECTRODE AND REPLACE WITH ELECTRODE OF SAME SIZE
DL	810	MAF	SJPRC01	SJPRC01	354	ROD(WELDING),CHANGE IN ELECTRODE HOLDER STARTS-WITH BREAK ARC AND MOVE ROD FROM WORK INCLUDES-ALL MOTIONS NECESSARY TO RAISE HOOD, OPEN CLAMP,REMOVE ROD FROM HOLDER,GET ROD, PLACE IN HOLDER,CLOSE CLAMP,MOVE ROD OVER WORK,LOWER HOOD,MOVE ROD TO WORK,AND STRIKE ARC ENDS-WITH ROD IN POSITION FOR WELDING

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AE	810	MAW	SWDEAC1	MNFEP01	53	ELECTRODE, POSITION AND STRIKE ARC STARTS=WITH ELECTRODE IN HAND INCLUDES=ALL MOTIONS NECESSARY TO MOVE AND POSITION ELECTRODE, FOCUS EYES AFTER LOWERING HOOD, STRIKE ARC, MOVE AND POSITION ELECTRODE FOR ARC WELD ENDS=WITH ELECTRODE POSITIONED FOR WELD CONDITION=TIME TO LOWER HOOD NOT INCLUDED
FFD	810	EUA	RWHAL01	MNFWAXX VARIABLE		WELD, ACCOMPLISH, ARC WELD, PER INCH STARTS=WITH ROD IN WELDING POSITION, ARC STARTED INCLUDES=ALL MOTIONS NECESSARY TO FUSE=WELD ONE LINEAR INCH ENDS=WITH WELD COMPLETED, ROD POSITIONED TO MATERIAL 467 CASE 01 WELD ONE LINEAR INCH, ALUMINUM OR MAGNESIUM 2080 02 WELD ONE LINEAR INCH, STAINLESS STEEL, USE .0625 INCH ROD
NAA	810	MAA	SWLIWXX	SNFWMXX VARIABLE		WELD(INERT GAS=ARC), MAKE STARTS=WITH REACH TO WELD TORCH INCLUDES=ALL THE MOTIONS NECESSARY TO GET AND POSITION WELD TORCH TO PART, OBTAIN WELD HOOD AND POSITION TO PART, FLIP HOOD DOWN WITH NOD OF HEAD, PLACE FOOT ON PEDAL AND DEPRESS, PLACE WELD ROD TO WELD POINT, PLACE TORCH TO WELD ROD AND WELD POINT, RELEASE FOOT PEDAL, ASIDE FOOT, ASIDE ROD TO BENCH, MOVE TORCH FROM PART, RAISE HOOD, ASIDE TORCH TO HOLDER ON BENCH ENDS=WITH ASIDE TORCH CONDITIONS=APPLIES TO LINDE HW-18 OR HW-20 WELDERS OR SIMILAR=.125 INCH THICK STEEL OR ALUMINUM=INERT GAS, METAL ARC 1259 CASE 01 FIRST OR SINGLE INCH=MOVE TORCH AND ROD 16 TIMES TO MAKE WELD 784 02 EACH ADDITIONAL INCH=MOVE TORCH AND ROD 16 TIMES TO MAKE WELD 578 03 TACK WELD-FIRST OR SINGLE SPOT=MOVE TORCH AND ROD TWO TIMES TO MAKE WELD 408 04 TACK WELD=EACH ADDITIONAL SPOT=MOVE TORCH AND ROD TWO TIMES TO MAKE WELD
AF	810	OBW	151831	MOHAB01	193	ARC, BREAK AND MOVE TO NEXT WELD STARTS=WITH BREAK ARC AND MOVE ROD FROM WORK INCLUDES=ALL MOTIONS NECESSARY TO RAISE HOOD, SIDESTEP TO NEXT WELD, MOVE ROD OVER WORK, LOWER HOOD, MOVE ROD TO WORK, AND SCRATCH SURFACE TO STRIKE ARC ENDS=WITH ROD IN POSITION TO MAKE WELD
NO	811	MAO	LHWIR1	MACVOXX VARIABLE		VALVES(BLOWPIPE OXYGEN AND ACETYLENE), OPEN AND CLOSE STARTS=WITH REACH TO OXYGEN VALVES INCLUDES=ALL MOTIONS NECESSARY TO SLIGHTLY OPEN OXYGEN VALVE, THEN REACH TO AND FULLY OPEN ACETYLENE VALVE; REACH TO OXYGEN VALVE, CLOSE, REACH TO ACETYLENE VALVE, AND CLOSE ENDS=WITH RELEASE VALVE 74 CASE 01 OPEN TWO VALVES 76 02 CLOSE TWO VALVES
NO	811	MAO	LHW102	MCLHC01	751	HOLeS(TORCH TIP), CLEAN STARTS=WITH MOVE CLEANER TO TIP INCLUDES=ALL MOTIONS NECESSARY TO POSITION CLEANER IN HOLE, MOVE BACK AND FORTH TO CLEAN HOLE AND REMOVE CLEANER FROM HOLE, SIX TIMES ENDS=WITH DISENGAGE CLEANER FROM SIXTH HOLE

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NO	811	MAO	LHW1E2	MCLHCO2	62	HOLE(HIGH PRESSURE TIP),CLEAN STARTS-WITH MOVE TAPERED CLEANER TO HOLE INCLUDES-ALL MOTIONS REQUIRED TO POSITION CLEANER IN HOLE AND ROTATE CLEANER IN HOLE ENDS-WITH CLEANER MOVED FROM HOLE
NO	811	MAO	LHW1S1	MJPBL01	120	BLOWPIPE,LIGHT STARTS-WITH REACH TO LIGHTER IN HIP POCKET INCLUDES-ALL MOTIONS NECESSARY TO GET LIGHTER, POSITION IT TO BLOWPIPE TIP, STRIKE LIGHTER, MOVE LIGHTER FROM FLAME, AND RETURN LIGHTER TO POCKET ENDS-WITH RELEASE LIGHTER
NAA	811	MAA	SWLTJ01	MJPTR01	635	TIP(ELECTRODE=GAS),REPLACE STARTS-WITH REACH TO GAS CAP ON TORCH INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND LOOSEN GAS CAP(THREE TURNS), REPLACE CAP AND GRASP ELECTRODE TIP, DISENGAGE TIP FROM GAS LENS COLLET BODY AND ASIDE TIP,PICK UP PROPER TIP AND INSTALL IN COLLET,GRASP GAS CAP AND TURN DOWN THREE TURNS,TIGHTEN CAP,RELEASE CAP ENDS-WITH RELEASE CAP CONDITIONS-FOR LINDE HW-18 AND HW-20 WELDING TIPS
NO	811	MAO	LHW1U1	M0HBP01	45	BLOWPIPE,POSITION TO METAL STARTS-WITH BLOWPIPE IN RIGHT HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE BLOW- PIPE TO LEFT HAND AND USE TWO HANDS TO POSITION TIP OF BLOWPIPE TO POINT OF CUT ENDS-WITH BLOWPIPE IN POSITION TO CUT
AF	813	MAA	608	MSLTS01	129	THYRATON CONTROLS(SPOT WELDING MACHINE),SET STARTS-WITH REACH TO FIRST CONTROL INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION POINT AND CHECK READING FOR FIRST CONTROL, SET RANGE SWITCH AND CHECK RANGE,ADJUST PER- CENT CONTROL POINTER,RELEASE CONTROL ENDS-WITH RELEASE PERCENT CONTROL
AF	814	MAA	8	SJPPP01	280	PRESSURE,PUMP IN BLOW TORCH TANK STARTS-WITH SIMO REACH TO TANK AND PUMP HANDLE INCLUDES-ALL MOTIONS NECESSARY TO LOOSEN VALVE SEAT BY TURNING PUMP HANDLE,MOVE HANDLE UP AND DOWN EIGHT STROKES TO BUILD PRESSURE,AND TIGHTEN VALVE SEAT ENDS-WITH RELEASE OF TORCH AND HANDLE
NF	814	MAF	1257	MNFSAXX VARIABLE	46	SOLDER,APPLY TO SEAM OR JOINT,SHEET METAL STARTS-WITH SOLDER AND IRON IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE SOLDER AND IRON TO JOINT,MOVE SOLDER AND IRON OVER JOINT TO SPREAD SOLDER,MOVE SOLDER AWAY,AND MOVE IRON AWAY ENDS-WITH SOLDER AND IRON IN HAND CONDITIONS-TIME FOR HEATING IRON AND SOLDER NOT INCLUDED CASE OF FIRST LINEAR INCH 02 EACH ADDITIONAL LINEAR INCH WITHOUT LIFTING IRON AND SOLDER FROM WORK
12					12	
AF	816	MAA	146	MACFE01	78	FEED(FLAME CUTTING MACHINE),ENGAGE TO START AND TURN OFF STARTS-WITH REACH TO SWITCH BUTTON INCLUDES-ALL THE MOTIONS NECESSARY TO TURN SWITCH BUTTON ON AND OFF,MOVE CLUTCH LEVER TO ENGAGE ENDS-WITH TURN OFF SWITCH CONDITIONS-RADIOGRAPH TYPE MACHINE

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NF	816	MAA	3418	MJPTAO1	152	TORCH(OXY-ACETYLENE-CUTTING),ADJUST FOR CUTTING BEVEL STARTS-WITH SIMO REACH TO TIP OF TORCH AND WING NUT INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND HOLD TORCH WITH RIGHT HAND,LOOSEN WING NUT WITH LEFT HAND,PUSH TORCH TIP TO DESIRED DEGREE,TIGHTEN WING NUT,RELEASE TORCH ENDS-WITH WING NUT TIGHTENED,TORCH RELEASED
NF	816	MAA	2577	MSUBPO1	145	BAR(RADIUS),PLACE IN AND REMOVE FROM FLAME CUTTING MACHINE STARTS-WITH REACH TO RADIUS BAR INCLUDES-ALL MOTIONS NECESSARY TO GET RADIUS BAR,MOVE TO MACHINE,POSITION IN SLOT;GET RADIUS BAR,REMOVE BAR FROM MACHINE,AND ASIDE BAR ENDS-WITH RELEASE OF BAR
AF	816	MAA	147	MSUMPO1	91	MACHINE(FLAME CUTTING),PLACE ON RING STARTS-WITH REACH TO MACHINE INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP THE MACHINE,LIFT AND PLACE MACHINE ON RING,RELEASE MACHINE,GET RADIUS BAR,POSITION RADIUS BAR IN PUNCH MARK,RELEASE MACHINE ENDS-WITH RELEASE MACHINE CONDITIONS=RADIOPHOTOGRAPH TYPE MACHINE
NF	816	MAA	3344	MSURPO1	128	RING(FLAME CUTTING MACHINE),POSITION ON PLATE TO BURN CIRCLES STARTS-WITH RING IN HAND,REACH TO PLATE INCLUDES-ALL THE MOTIONS NECESSARY TO GET PLATE,PLACE PLATE FOR BURNING,RELEASE PLATE AND REACH BACK TO PLATE ENDS-WITH HAND RETURNED TO PLATE CONDITIONS=RADIOPHOTOGRAPH TYPE MACHINE-MOVE PLATE
AF	816	MAA	145	MSUSA01	65	SPEED DIAL(FLAME CUTTING MACHINE),ADJUST STARTS-WITH REACH TO DIAL INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND TURN DIAL TO SPEED LETTER,POSITION DIAL TO LINE,RELEASE DIAL ENDS-WITH RELEASE DIAL CONDITIONS=RADIOPHOTOGRAPH TYPE MACHINE
AF	816	MAA	151	MSUTPO1	103	TORCH ARM(FLAME CUTTING MACHINE),POSITION FOR BURNING CIRCLES OR STRAIGHT LINES STARTS-WITH REACH TO ADJUSTMENT KNOB INCLUDES-ALL THE MOTIONS NECESSARY TO ADJUST ARM TO CHALK LINE,CHECK POSITION OF ARM AND MACHINE BY MOVING IN CIRCLE BY HAND,RELEASE MACHINE ENDS-WITH RELEASE MACHINE CONDITIONS=RADIOPHOTOGRAPH TYPE MACHINE
NF	816	MAA	1288	MSUWR01	155	WHEEL(FLAME CUTTING MACHINE),REMOVE STARTS-WITH REACH(SIMO)TO MACHINE AND WING NUT INCLUDES-ALL MOTIONS NECESSARY TO HOLD MACHINE WITH LEFT AND LOOSEN WING NUT WITH RIGHT HAND,RELEASE MACHINE WITH LEFT HAND AND GRASP LEFT LEVER,MOVE LEVER AND REMOVE WHEEL,LOWER MACHINE,RELEASE WHEEL ASIDE ENDS-WITH RELEASE WHEEL CONDITIONS=RADIOPHOTOGRAPH TYPE MACHINE

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AF	82X	MAA	MDE-2D1	MDACI01	586	COVER(RACEWAY BASE SECTION),INSTALL STARTS-WITH COVER IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE THE COVER TO THE BASE SECTION, INSERT LEADING CORNER OF COVER INTO CHANNEL, HOLD CORNER IN CHANNEL AND INSERT TRAILING EDGE OF SAME SIDE INTO CHANNEL AND HOLD, RELEASE LEADING CORNER WITH RIGHT HAND AND GRASP AND HOLD CENTER WITH PALM AND THUMB, RELEASE TRAILING CORNER WITH LEFT HAND AND GET SCREWDRIVER FROM BELT KIT, INSERT SCREWDRIVER BETWEEN COVER AND BASE SECTION OF OPPOSITE SIDE AND HOLD LEVERAGE, RELEASE COVER WITH RIGHT HAND, GET MALLET FROM BELT KIT, HAMMER SECOND EDGE INTO CHANNEL, RETURN MALLET TO BELT KIT, REMOVE AND ASIDE SCREWDRIVER ENDS-WITH RETURN SCREWDRIVER TO BELT KIT CONDITIONS-BASE SECTION AVERAGE FOUR FEET LONG
AF	82X	MAA	MDE-2S1	MDALC01	64	LUG(TERMINAL),CONNECT TO SWITCH STARTS-WITH SWITCH ASSEMBLY IN HAND(LEFT) INCLUDES-ALL THE MOTIONS NECESSARY TO REACH RIGHT HAND TO RACEWAY AND GRASP A CONDUCTOR, MOVE CONDUCTOR(WITH LUG TERMINAL) AND INSERT IN SWITCH, PUSH CLAMP SCREW WITH THUMB OF LEFT HAND, RELEASE CONDUCTOR ENDS-WITH SWITCH ASSEMBLY IN LEFT HAND
AF	82X	MAA	MDE-3Q1	MDAST01	65	SOCKET(LAMP),INSERT IN REFLECTOR FITTING STARTS-WITH SOCKET IN LEFT HAND,RIGHT HAND HOLDING ASSEMBLY INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE SOCKET TO FITTING AND POSITION WITH RIGHT HAND, HOLD SOCKET TO FITTING AND REACH TO FITTING WITH LEFT HAND,GRASP AND HOLD FITTING AND SOCKET BETWEEN THUMB AND FOREFINGER, RELEASE HOLD WITH RIGHT HAND, REGRASP SOCKET AND FITTING AND ALIGN AND PRESS TOGETHER WITH BOTH HANDS, RELEASE RIGHT HAND, HOLD WITH LEFT HANDS, RELEASE LEFT HAND, HOLD WITH LEFT HAND HOLDING ASSEMBLY CONDITIONS-LEECRAFT SOCKET
NF	82X	MAF	802/804	MJPFUXX VARIABLE	217 144	FISHTAPE(ELECTRICAL),UNWRAP FROM AND WRAP ON REEL,PER FOOT STARTS-WITH REEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GET END OF TAPE,PULL OUT SIX-INCH LENGTH,RELEASE TAPE,GET END, AND PULL OUT SIX-INCH LENGTH; AND GET FISHTAPE REEL, AND WRAP TAPE ON REEL ENDS-WITH FISHTAPE IN HAND CASE 01 FIRST FOOT 02 EACH ADDITIONAL FOOT
NF	82X	MAF	847	MJPPO01	187	OILER,PREPARE FOR FILLING STARTS-WITH REACH TO SLIDE COVER ON OILER INCLUDES-ALL MOTIONS NECESSARY TO MOVE COVER ASIDE, PICK UP FUNNEL, PLACE IN OILER, GET OIL CONTAINER, MOVE CONTAINER INTO POSITION TO POUR, MOVE CONTAINER AWAY, MOVE FUNNEL AWAY, AND REPLACE COVER ENDS-WITH RELEASE OF COVER CONDITIONS-TIME FOR POURING OIL NOT INCLUDED. APPLICABLE TO OLERS SUCH AS THOSE FOUND ON ELECTRIC FANS AND BLOWERS
NF	82X	MAF	2396	MJPST01	161	SWITCH,TURN OFF OR ON,BRANCH LIGHTING CIRCUIT STARTS-WITH REACH TO PANEL DOOR INCLUDES-ALL MOTIONS NECESSARY TO OPEN DOOR, LOCATE SWITCH, TURN SWITCH OFF OR ON, AND CLOSE DOOR ENDS-WITH RELEASE OF DOOR CONDITIONS-DID NOT INCLUDE TIME TO LOOK AT PANEL SCHEMATIC TO DETERMINE SWITCH NUMBER

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NF	82X	MAF	876	SNFTA01	443	TAPE,APPLY TO WIRE SPLICE STARTS=WITH REACH TO ROLL OF TAPE INCLUDES=ALL MOTIONS NECESSARY TO OBTAIN A 10-INCH LENGTH OF TAPE FROM ROLL,ASIDE ROLL OF TAPE,POSITION TAPE TO WIRE SPLICE,WRAP SPLICE SIX REVOLUTIONS,AND PRESS TAPE TO SPLICE ENDS=WITH RELEASE OF TAPE SPLICE
FFD	82X	MAA	KALED10	SNFTR01	157	TIE(SPOT),REMOVE STARTS=WITH REACH TO GET TOOLS(CUTTER) INCLUDES=ALL THE MOTIONS NECESSARY TO GET CUTTER WITH RIGHT HAND,GRASP WIRE WITH LEFT HAND,CUT LINE WITH CUTTER(TWO CUTS),REMOVE LACING,ASIDE CUTTER AND LACING ENDS=WITH ASIDE CUTTER
FFD	82X	MAA	KALEWAX	SNFWCXX VARIABLE	1200	WIRE BUNDLE,COIL AND TIE STARTS=WITH REACH TO WIRE BUNDLE INCLUDES=ALL THE MOTIONS NECESSARY TO GET WIRE BUNDLE,COIL WIRE,GET AND UNWIND ONE FOOT OF LACING CORD,TIE COIL OF WIRE BUNDLE WITH THREE KNOTS,CUT LACING,ASIDE CUTTER,ASIDE WIRE BUNDLE COIL ENDS=WITH COIL ASIDE CONDITIONS=USE WHEN WIRE BUNDLE IS COILED AND SECURED TO EXISTING WIRE BUNDLE OR COILED FOR STORAGE=SPOT TIE IN THREE PLACES CASE 01 COIL AND TIE FIRST OR ONLY THREE FEET OF WIRE 138 02 COIL EACH ADDITIONAL THREE FEET OF WIRE
FFD	82X	MAA	KALEA13	SNFWT01	1838	WIRE BUNDLE,TAPE AND TIE STARTS=WITH REACH TO ROLL OF TAPE INCLUDES=ALL THE MOTIONS NECESSARY TO GET ROLL OF TAPE,GET END OF TAPE AND UNROLL,CUT TAPE, ASIDE TAPE ROLL AND CUTTER,WRAP TAPE ON WIRE BUNDLE,GET AND UNWIND ONE FOOT OF LACING CORD, TIE TWO KNOTS ON TAPE AROUND WIRE BUNDLE,CUT CORD AND ASIDE CUTTER ENDS=WITH ASIDE CUTTER CONDITIONS=WRAP 24 INCHES OF INSULATING TAPE ON SIX INCHES OF WIRE BUNDLE,TIE IN TWO PLACES
NF	82X	MAF	828	MOH8I01	914	BOX(JUNCTION),INSTALL ON CONDUIT STARTS=WITH GET LOCKNUT INCLUDES=ALL MOTIONS NECESSARY TO INSTALL LOCKNUT ON END OF CONDUIT(TEN THREADS),GET JUNCTION BOX,PLACE BOX ON END OF CONDUIT,GET SECOND LOCKNUT,PLACE ON END OF CONDUIT,TURN DOWN SIX THREADS BY HAND,GET SCREWDRIVER,GET HAMMER,PLACE SCREWDRIVER TO LOCK NUT INSIDE BOX,STRIKE SCREWDRIVER WITH HAMMER UNTIL NUT IS TIGHT,AND ASIDE SCREWDRIVER AND HAMMER ENDS=WITH RELEASE OF SCREWDRIVER AND HAMMER CONDITION=TIME TO REMOVE KNOCKOUT PLUG FROM JUNCTION BOX NOT INCLUDED
NF	82X	MAF	848	MOHPR01	90	PAPER,REMOVE FROM CONDUCTOR AFTER OUTER INSULATION HAS BEEN STRIPPED STARTS=WITH REACH TO PAPER INCLUDES=ALL MOTIONS NECESSARY TO UNTWIST AND REMOVE PAPER WRAPPING FROM CONDUCTOR ENDS=WITH ASIDE PAPER
NF	82X	MAF	910	MOHWA01	70	WIRE,ALIGN FOR FORMING IN ELECTRICAL BOX STARTS=WITH REACH TO WIRE INCLUDES=ALL MOTIONS NECESSARY TO APPLY PRESSURE AND MOVE INTO ALIGNMENT IN BOX ALSO INCLUDES VISUAL CHECK OF ALIGNMENT ENDS=WITH RELEASE OF WIRE

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NF	82X	MAF	911/913	MOHWBXX	VARIABLE	WIRE,BEND 90 DEGREES FOR FORMING IN ELECTRICAL BOX STARTS=WITH REACH TO WIRE INCLUDES=ALL MOTIONS NECESSARY TO MAKE 90- DEGREE BEND BY HAND AND TO CHECK ALIGNMENT ENDS=WITH BEND COMPLETED CASE 01 BEND NO.10 WIRE 02 BEND NO.4 TO NO.2 WIRE
NF	82X	MAF	946	MOHWR01	1611	WRAPPING(PAPER),REMOVE FROM COIL OF WIRE STARTS=WITH KNIFE IN HAND INCLUDES=ALL MOTIONS NECESSARY TO BEND TO COIL OF WIRE,CUT PAPER WRAPPING,ASIDE KNIFE TO TOOL POUCH,LIFT COIL ON EDGE,AND UNWRAP PAPER FROM COIL ENDS=WITH ARISE
FFD	82X	MAA	KALEA14	SOHPP01	1393	PLUG/RECEPTACLE,PLACE IN PLASTIC BAG STARTS=WITH REACH TO GET BAG INCLUDES=ALL THE MOTIONS NECESSARY TO GET BAG, OPEN AND PLACE PLUG/RECEPTACLE IN BAG,GET LACING CORD AND UNWIND ONE FOOT,TIE BAG IN TWO PLACES,CUT CORD,ASIDE SPOOL AND CUTTER ENDS=WITH ASIDE CUTTER
NF	82X	MAF	880	MTLBC01	253	BANDING,CUT ON REEL OF WIRE,CABLE,OR SIMILAR STARTS=WITH REACH TO SCREWDRIVER INCLUDES=ALL MOTIONS NECESSARY TO GET SCREWDRIVER FROM BELT KIT,INSERT SCREWDRIVER UNDER BANDING,STRETCH BANDING,RETURN SCREWDRIVER TO KIT,GET PLIERS,CUT BANDING,AND RETURN PLIERS TO BELT KIT ENDS=WITH RELEASE OF PLIERS
NF	82X	MAF	2660	MTLCR01	175	CONDUIT,REAM END,ONE INCH DIAMETER,HAND REAMER STARTS=WITH REAMER IN HAND INCLUDES=ALL MOTIONS NECESSARY TO PLACE REAMER IN END OF CONDUIT,REAM AND REMOVE REAMER ENDS=WITH REAMER IN HAND
NF	82X	MAF	800	MTLFU01	68	FISHTAPE(ELECTRICAL),USE,FEED INTO CONDUIT STARTS=WITH FISHTAPE IN HAND INCLUDES=ALL MOTIONS NECESSARY TO PUSH ONE FOOT OF FISHTAPE INTO CONDUIT ENDS=WITH HAND ON FISHTAPE
NF	82X	MAF	805	MTLFU02	48	FISHTAPE(ELECTRICAL),USE,DISENGAGE TWO TAPES STARTS=WITH SIMO REACH TO TWO FISHTAPES INCLUDES=ALL MOTIONS NECESSARY TO SEPARATE TWO FISHTAPES BY UNHOOKING ENDS=WITH ASIDE FISHTAPES
NF	82X	MAF	819	MTLHC01	85	HOLE,CUT IN CARDBOARD CONTAINER WITH KNIFE STARTS=WITH KNIFE IN HAND INCLUDES=ALL MOTIONS NECESSARY TO CUT HOLE APPROXIMATELY FOUR INCHES IN DIAMETER IN CARDBOARD CONTAINER AND ASIDE CARDBOARD DISC ENDS=WITH KNIFE IN HAND CONDITION=APPLICABLE TO OPENING COIL OF ELECTRICAL WIRE OR SIMILAR
AF	82X	MAF	254	MTLHR01	134	HICKEY,REPOSITION ON CONDUIT STARTS=WITH STOOP TO CONDUIT INCLUDES=ALL MOTIONS NECESSARY TO ROTATE CONDUIT,POSITION HICKEY TO BEND MARK,AND ARISE ENDS=WITH HAND ON HICKEY HANDLE

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NF	82X	MAF	839	MTLLC01	83	LUG(TERMINAL),CRIMP TO WIRE STARTS-WITH CRIMPING TOOL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GET TERMINAL LUG WITH CRIMPING TOOL AND CRIMP LUG TO WIRE ENDS-WITH ASIDE TOOL CONDITION-TIME TO PLACE LUG ON WIRE NUT INCLUDED
NF	82X	MAF	895	MTLLP01	96	LOOP,PLACE ON TERMINAL AND CLOSE WITH PLIERS STARTS-WITH MOVE LOOP TO TERMINAL,PLIERS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO POSITION LOOP ON TERMINAL AND USE PLIERS TO CLOSE LOOP ON TERMINAL ENDS-WITH PLIERS IN HAND CONDITIONS-TIME FOR INITIAL BENDING OF LOOP NOT INCLUDED.APPLICABLE TO NO.8 OR SMALLER WIRE.
NF	82X	MAF	871	MTLSB01	95	SPLICE,BEND PARALLEL TO CONDUCTOR WITH PLIERS STARTS-WITH PLIERS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO BEND TWISTED WIRE SPLICE PARALLEL TO CONDUCTOR ENDS-WITH PLIERS IN HAND CONDITION-APPLICABLE TO NO.8 OR SMALLER WIRE
NF	82X	MAF	834	MTLSF01	413	SPLICE,FORM WITH PLIERS,PIGTAIL SPLICE STARTS-WITH PLIERS IN HAND,WIRES POSITIONED FOR TWISTING INCLUDES-ALL MOTIONS NECESSARY TO PLACE PLIERS ON WIRES AND TWIST TO FORM SPLICE ENDS-WITH PLIERS IN HAND CONDITIONS-APPLICABLE TO SPLICING ELECTRICAL FIXTURE LEADS
NF	82X	MAF	2699	MTLTC01	343	THREAD,CUT IN CONDUIT STARTS-WITH THREADER STARTED ON CONDUIT INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE HANDLE,SET RATCHET AND MOVE HANDLE TO CUT ONE THREAD ENDS-WITH ONE THREAD CUT CONDITIONS-MAKE 1/5 REVOLUTION PER STROKE
NF	82X	MAF	921	MTLWD01	192	WIRE,DISCONNECT FROM FISHTAPE AFTER PULLING STARTS-WITH KNIFE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO CUT TAPE WITH KNIFE,ASIDE KNIFE,REMOVE AND ASIDE TAPE, GET PLIERS,AND CUT WIRE ENDS-WITH ASIDE PLIERS
NF	82X	MAF	750	STLCBXX VARIABLE	726 1092 745 1131 791 1226 1205	CONDUIT,BEND WITH HICKEY STARTS-WITH GET HICKEY INCLUDES-ALL MOTIONS NECESSARY TO STOOP TO CONDUIT,PLACE HICKEY ON CONDUIT,POSITION HICKEY TO BEND POINT,ARISE,PLACE FOOT ON CONDUIT,BEND CONDUIT,REPOSITION HICKEY AS NECESSARY,COMPLETE BEND,STOOP,AND REMOVE HICKEY FROM CONDUIT ENDS-WITH ARISE AND ASIDE HICKEY CASE 01 BEND 1/2 INCH RIGID CONDUIT 45 DEGREES 02 BEND 1/2 INCH RIGID CONDUIT 90 DEGREES 03 BEND 3/4 INCH RIGID CONDUIT 45 DEGREES 04 BEND 3/4 INCH RIGID CONDUIT 90 DEGREES 05 BEND 1 INCH RIGID CONDUIT 45 DEGREES 06 BEND 1 INCH RIGID CONDUIT 90 DEGREES 07 BEND STUB OFFSET IN RIGID CONDUIT 1 INCH OR LESS IN DIAMETER

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	82X	MAA	KALEWBX	STLPCXX VARIABLE		PLUG(COAXIAL),CUT FROM CABLE STARTS-WITH REACH TO CUTTERS INCLUDES-ALL THE MOTIONS NECESSARY TO GET CUTTERS,GET CABLE,POSITION CUTTERS(PLIERS)TO CABLE AND CUT PLUG FROM CABLE,ASIDE PLUG AND CUTTERS ENDS-WITH ASIDE PLUG/CUTTERS CASE 01 CUT FIRST OR SINGLE PLUG FROM CABLE 02 CUT EACH ADDITIONAL PLUG FROM CABLE
NF	82X	MAF	754	STLTBXX VARIABLE	195 133	TUBING(ELECTRICAL METALLIC),BEND WITH MANUAL BENDER STARTS-WITH GET BENDER INCLUDES-ALL MOTIONS NECESSARY TO STOOP TO BENDER,PLACE BENDER ON ELECTRICAL METALLIC TUBING(EMT),POSITION BENDER TO BEND POINT, ARISE,PLACE FOOT ON TUBING TO HOLD,BEND TUBING,STOOP,REMOVE BENDER,AND ARISE ENDS-WITH ASIDE BENDER CASE 01 BEND UP TO 1 INCH EMT 45 DEGREES 02 BEND UP TO 1 INCH EMT 90 DEGREES 03 BEND STUB OFFSET IN UP TO 1 INCH EMT (MAKE TWO 45-DEGREE BENDS).
NF	82X	MAF	860	MTPAP01	519 541 791	ARM(RAM),PULL TO FREE ANVIL,HYDRAULIC CONDUIT BENDER STARTS-WITH BEND AND REACH TO RAM ARM INCLUDES-ALL MOTIONS NECESSARY TO HOLD RAM JACK HOUSING WITH ONE HAND AND PULL RAM ARM WITH OTHER HAND ENDS-WITH RELEASE RAM ARM AND HOUSING AND ARISE
NF	82X	MAF	758	MTPCBXX VARTABLE	108 1975 2920 2810 4256 5170 8976 12435 14216 28153	CONDUIT,BEND WITH HYDRAULIC BENDER STARTS-WITH STOOP TO CONDUIT BENDER INCLUDES-ALL MOTIONS NECESSARY TO GET HANDLE, PUMP HANDLE TO BEND CONDUIT,SHIFT CONDUIT IN BENDER AS NECESSARY,AND RELEASE HANDLE WHEN BEND IS COMPLETED ENDS-WITH ARISE FROM STOOP CONDITIONS-DOES NOT INCLUDE INSTALLATION IN OR REMOVAL FRCM BENDER CASE 01 BEND 1 1/4 INCH CONDUIT 45 DEGREES 02 BEND 1 1/4 INCH CONDUIT 90 DEGREES 03 BEND 1 1/2 INCH CONDUIT 45 DEGREES 04 BEND 1 1/2 INCH CONDUIT 90 DEGREES 05 BEND 2 INCH CONDUIT 45 DEGREES 06 BEND 2 INCH CONDUIT 90 DEGREES 07 BEND 2 1/2 INCH CONDUIT 90 DEGREES 08 BEND 3 INCH CONDUIT 90 DEGREES 09 BEND 4 INCH CONDUIT 90 DEGREES
AF	82X	MAA	MDE-3J	MWHSM01	120	SPLICING(CENTER),MAKE STARTS-WITH ONE WIRE IN EACH HAND INCLUDES-ALL THE MOTIONS NECESSARY TO PLACE END OF WIRE IN RIGHT HAND TO SPLICING POINT IN WIRE HELD BY LEFT HAND,TWIST END OF WIRE HELD BY RIGHT HAND AROUND OTHER WIRE TO MAKE ELECTRICALLY TIGHT,RELEASE WIRES ENDS-WITH RELEASE WIRE CONDITIONS-DOES NOT INCLUDE TAPING OR SOLDER- ING

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	82X	MAA	KALEW39	SWHSI01	1076	<p>SPLICE(CCAXIAL CABLE),INSTALL TO SHIELDED WIRE STARTS-WITH REACH TO WIRE INCLUDES-ALL THE MOTIONS NECESSARY TO GET WIRE AND KNIFE,CUT AND STRIP INSULATION,GET AND POSITION BARREL TO WIRE END,PUSH SHIELDING BACK,POSITION INNER BARREL TO WIRE END,GET AND PLACE TAPE SHIELD OVER INNER BARREL WITH HAND,GET OUTER BARREL AND PLACE OVER INNER BARREL WITH HAND,GET PLIERS,POSITION ON BARRELS.ALIGN BARRELS,GET CRIMPERS,CRIMP BARRELS,ASIDE CRIMPERS AND WIRE ASSEMBLY ENDS-ASIDE CRIMPERS AND WIRE ASSEMBLY</p>
FFD	82X	MAA	KALEA05	SWHSM01	2367	<p>SPLICE(TWO WIRES),MAKE WITH STAKE-ON PLIERS STARTS-WITH REACH TO WIRE INCLUDES-ALL THE MOTIONS NECESSARY TO GET WIRE AND STRIPPERS,STRIP ONE END OF TWO WIRES,ASIDE STRIPPERS,GET STAKE-ON PLIERS,GET SPLICE,PLACE SPLICE ON WIRE END(ONE WIRE),PLACE PLIERS ON SPLICE AND CRIMP,PALM PLIERS,GET,MEASURE AND CUT SPAGHETTI AND INSTALL OVER SPLICE,GET SECOND WIRE,STRAIGHTEN AND PLACE IN SPLICE, CRIMP SPLICE,PULL WIRES TO CHECK SPLICE,ASIDE CRIMPERS,SLIDE SPAGHETTI OVER SPLICE,UNWIND ONE FOOT OF LACING CORD,TIE KNOT ON EACH SIDE OF SPLICE AND OVER SPAGHETTI,CUT CORD,ASIDE CUTTER ENDS-WITH ASIDE CUTTER CONDITIONS-NON-SHIELDED WIRE</p>
FFD	82X	MAA	KALED05	SWHSR01	151	<p>SPLICE,REMOVE STARTS-WITH REACH TO CUTTER INCLUDES-ALL THE MOTIONS NECESSARY TO GET CUTTER,GRASP WIRE WITH OTHER HAND,MAKE FIRST CUT,MOVE CUTTER TO SECOND POINT AND CUT WIRE, ASIDE CUTTER,RELEASE WIRE ENDS-WITH ASIDE CUTTER</p>
NF	821	MAF	853	MBMCP01	1513	<p>POLE,CLIMB TO LOWER CROSSARM,APPROXIMATELY 30 FEET STARTS-WITH REACH TO POLE INCLUDES-ALL MOTIONS NECESSARY TO CLIMB POLE TO LOWER CROSSARM USING CLIMBING HOOKS ENDS-WITH CLIMB COMPLETED CONDITIONS-NO TIME INCLUDED FOR FASTENING OR UNFASTENING SAFETY BELT</p>
NF	821	MAF	852	MBMCP02	686	<p>POLE,CLIMB FROM LOWER TO UPPER CROSSARM STARTS-WITH GET HOLD ON POLE INCLUDES-ALL MOTIONS NECESSARY TO UNHOOK SAFETY BELT,CLEAR BELT FROM POLE,CLIMB THREE STEPS USING CLIMBING HOOKS,STEP ON LOWER CROSSARM,HOOK SAFETY BELT AROUND POLE,CLIMB THREE ADDITIONAL STEPS,AND POSITION SAFETY BELT ENDS-WITH CLIMB COMPLETED</p>
NF	821	MAF	850	MBMPC01	402	<p>POSITION,CHANGE HORIZONTALLY ON POLE STARTS-WITH REACH FOR NEW HOLD ON POLE INCLUDES-ALL MOTIONS NECESSARY TO DISENGAGE CLIMBING HOOK,MOVE AROUND POLE,SINK HOOK IN POLE,GET NEW HOLD,AND REPOSITION BELT ENDS-WITH POSITION CHANGED CONDITIONS-APPLICABLE TO MOVING UP TO 180 DEGREES AROUND POLE</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY SOURCE	SOURCE CODE	DWMSDTP-ELEMENT	THU-VALUE	OPERATION/ELEMENT DESCRIPTION
NF	821	MAF	2407	SBMPC01	5843	POLE,CLIMB TO AND DESCEND FROM LOWER CROSSARM STARTS-WITH BEND TO POLE CLIMBERS INCLUDES-ALL MOTIONS NECESSARY TO PUT ON POLE CLIMBERS,ARISE PUT ON SAFETY BELT,CLIMB APPROXIMATELY 30 FEET UP POLE,HOOK SAFETY BELT AROUND POLE,REMOVE HANDLINE FROM SAFETY BELT AND HOOK ON CROSSARM;REMOVE HANDLINE,HOOK ON BELT,REMOVE BELT FROM POLE,DESCEND POLE,REMOVE SAFETY BELT, AND REMOVE POLE CLIMBERS ENDS-WITH ASIDE CLIMBERS
NF	821	MAF	716	MCLSC01	335	SHEATHING(LEAD CABLE),CLEAN BY SCRAPPING STARTS-WITH SCRAPER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE SCRAPER TO CABLE AND CLEAN THREE SQUARE INCHES ENDS-WITH SHEATHING CLEANED CONDITION-CLEANING IS PREPARATORY TO FLUX APPLICATION FOR SPLICING
NF	821	MAF	2411/12	MJPSP01	546	SLEEVES(RUBBER LINEMAN'S),PUT ON AND TAKE OFF STARTS-WITH REACH TO STORAGE POUCH INCLUDES-ALL MOTIONS NECESSARY TO UNFASTEN SNAPS ON POUCH,REMOVE SLEEVES FROM POUCH,PLACE SLEEVE STRAP OVER BACK OF NECK,AND PLACE ARMS IN SLEEVES;AND REACH TO FIRST SLEEVE,REMOVE,REACH TO SECOND SLEEVE,REMOVE,ROLL SLEEVES,PLACE SLEEVES IN POUCH,AND CLOSE SNAPS ON POUCH ENDS-WITH RELEASE OF POUCH
NF	821	MAF	769	SNFCI01	1411	CONNECTOR(SOLDERLESS),INSTALL,SPLIT BOLT TYPE STARTS-WITH REACH TO CONNECTOR INCLUDES-ALL MOTIONS NECESSARY TO REMOVE NUT FROM CONNECTOR,PLACE SPLIT BOLT OVER FIRST WIRE,START NUT ON BOLT,GET SECOND WIRE AND SLIDE INTO CONNECTOR,GET WRENCH FROM BELT KIT,TURN NUT WITH WRENCH,GET SECOND WRENCH FROM BELT KIT,PLACE ON BOLT TO HOLD,TIGHTEN NUT,AND RETURN EACH WRENCH TO BELT KIT ENDS-WITH RELEASE OF SECOND WRENCH
NF	821	MAF	701	MOHAI01	2477	ANCHOR(AND ROD ASSEMBLY),INSTALL IN HOLE AND EXPAND ANCHOR STARTS-WITH REACH TO ASSEMBLY ON TRUCK INCLUDES-ALL MOTIONS NECESSARY TO REMOVE ASSEMBLY FROM TRUCK,CARRY ASSEMBLY SIX PACES TO HOLE,PLACE ASSEMBLY IN HOLE AND POSITION,RETURN TO TRUCK,GET TAMPING BAR,RETURN TO HOLE,USE TAMPING BAR TO EXPAND ANCHOR,AND RETURN TAMPING BAR TO RACK ON TRUCK ENDS-WITH RELEASE OF BAR CONDITIONS-ASSEMBLY WEIGHS 44 POUNDS.TIME TO BACKFILL AND TAMP HOLE NOT INCLUDED.HOLE IS APPROXIMATELY SEVEN FEET DEEP.
NF	821	MAF	933	MOHBRO1	283	BELTING,REMOVE FROM LEAD SHEATHED CABLE STARTS-WITH REACH TO CUT END OF BELTING INCLUDES-ALL MOTIONS NECESSARY TO UNWRAP EIGHT REVOLUTIONS OF BELTING INSULATION FROM CABLE ENDS-WITH BELTING IN HAND CONDITION-TIME TO CUT BELTING NOT INCLUDED
NF	821	MAF	775	MOHC001	202	CUTOUT(FUSED),OPEN OR CLOSE ON POLE WITH DISCONNECT STICK STARTS-WITH REACH TO STICK ON HANDLINE INCLUDES-ALL MOTIONS NECESSARY TO GET LOOP ON HANDLINE,LIFT OVER END OF STICK,MOVE STICK TO EYE IN SWITCH,HOOK STICK IN EYE,PULL SWITCH TO OPEN OR PUSH TO CLOSE,MOVE HOOK OUT OF EYE,AND MOVE STICK BACK TO HANDLINE ENDS-WITH RELEASE OF STICK CONDITIONS-TIME FOR CLIMBING AND DESCENDING POLE NOT INCLUDED

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	821	MAF	2764	MOHER01	359	EQUIPMENT, RAISE OR LOWER ON POLE WITH HANDLINE STARTS-WITH REACH TO HANDLINE INCLUDES-ALL MOTIONS NECESSARY TO RAISE OR LOWER EQUIPMENT ATTACHED TO HANDLINE WITH HAND OVER HAND MOTIONS ENDS-WITH EQUIPMENT RAISED OR LOWERED CONDITIONS-NO TIME INCLUDED FOR ATTACHING OR REMOVING EQUIPMENT FROM HANDLINE OR FOR CLIMBING OR DESCENDING POLE. APPLICABLE TO TOOLS, TOOL BAG, MATERIAL, ETC. WITH ENW TO 15 POUNDS RAISED TO OR LOWERED FROM HEIGHT OF 30 FEET
NF	821	MAF	934	MOHFRO1	95	FILLER, REMOVE AND CUT, LEAD SHEATHED CABLE STARTS-WITH REACH TO FILLER, KNIFE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PULL FILLER OUT APPROXIMATELY ONE FOOT AND CUT WITH KNIFE ENDS-WITH FILLER AND KNIFE IN HAND
NF	821	MAF	820	MOHHI01	257	HOOD(RUBBER INSULATOR), INSTALL ON ENERGIZED LINE STARTS-WITH REACH TO INSULATOR HOOD IN BAG INCLUDES-ALL MOTIONS NECESSARY TO GET INSULATOR FROM BAG, CHANGE POSITION ON POLE, SINK CLIMBING HOOK INTO POLE, MOVE HOOD TO INSULATOR, AND PLACE HOOD OVER INSULATOR ENDS-WITH RELEASE OF INSULATOR CONDITION-TIME FOR CLIMBING POLE NOT INCLUDED
NF	821	MAF	821	MOHHP01	324	HOSE(RUBBER), PLACE ON ENERGIZED LINE STARTS-WITH REACH TO HOSE IN BAG INCLUDES-ALL MOTIONS NECESSARY TO GET HOSE, CHANGE POSITION ON POLE, SINK CLIMBING HOOK INTO POLE, MOVE HOSE TO WIRE, AND PUSH HOSE DOWN WIRE TO PROVIDE PROTECTION DURING ENSUING WORK ENDS-WITH RELEASE OF HOSE CONDITION-TIME FOR CLIMBING POLE NOT INCLUDED. HOSE APPROXIMATELY FIVE FEET LONG.
NF	821	MAF	702	MTFAA01	759	ANCHOR, ASSEMBLE TO ROD STARTS-WITH REACH TO ANCHOR IN RACK ON TRUCK INCLUDES-ALL MOTIONS NECESSARY TO REMOVE ANCHOR FROM TRUCK, GET ROD, SCREW ANCHOR ONTO ROD, GET WIRE CUTTERS FROM BELT KIT, CUT FOUR TIE WIRES, REPLACE CUTTERS IN BELT ENDS-WITH RELEASE OF CUTTERS CONDITIONS-ANCHOR WEIGHS 28 POUNDS. 1"X10" ROD WEIGHS 16 POUNDS
NF	821	MAF	856	MTLPD01	157	PIKE, DRIVE INTO POLE, APPROXIMATELY 20 FEET ABOVE GROUND STARTS-WITH PIKE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO LIFT PIKE, PUSH INTO POLE, AND WEDGE PIKE AGAINST GROUND ENDS-WITH RELEASE OF PIKE CONDITION-PIKE WEIGHS APPROXIMATELY 20 POUNDS
NF	821	MAF	854	MTLPRO1	415	POLE, ROTATE WITH CANT HOOK STARTS-WITH REACH TO CANT HOOK INCLUDES-ALL MOTIONS NECESSARY TO GET HOOK, OBSERVE POLE TO ESTIMATE AMOUNT OF TURN REQUIRED, ROTATE POLE WITH HOOK, CHECK POSITION, ROTATE POLE, CHECK POSITION, STOOP, REMOVE CANT HOOK FROM POLE, AND ARISE ENDS-WITH ASIDE CANT HOOK CONDITIONS-RESISTANCE TO TURN IS APPROXIMATELY 40 POUNDS ENW.

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	821	MAF	817	STLSD01	609	STEP(POLE), DRIVE INTO POLE WITH HAMMER STARTS-WITH REACH TO POLE STEP INCLUDES-ALL MOTIONS NECESSARY TO GET HAMMER, DRIVE STEP INTO POLE, ASIDE HAMMER, GET WRENCH, AND TURN STEP TO ALIGN ENDS-WITH ASIDE WRENCH
FFD	823	TAA	KALEA09	SMHJ101	7306	JACK/PLUG(INTERPHONE), INSTALL STARTS-WITH REACH TO GET TOOL INCLUDES-ALL THE MOTIONS NECESSARY TO GET SCREWDRIVER AND POSITION TO JACK SLOT, BREAK INNER PART OF JACK LOOSE, DISENGAGE INNER PART FROM SHELL, OPEN VISE, PLACE RECEPTACLE IN VISE AND TIGHTEN, GET AND PLUG IN SOLDERING IRON, ASIDE IRON TO HOLDER, GET EXTENSION CORD AND KNIFE, CUT AND REMOVE OUTER COVERING AT END OF CORD, ASIDE KNIFE, GET STRIPPERS AND STRIP FOUR WIRES, ASIDE STRIPPERS, GET SOLDERING IRON AND TIN EACH WIRE END, ASIDE IRON AND CORD, GET PLIERS AND GRASP WIRE, MOVE WIRE TO AND PLACE IN VISE, SOLDER EACH WIRE IN RECEPTACLE, ASIDE IRON AND REACH(SIMO) TO VISE HANDLE AND CABLE, OPEN VISE AND REMOVE CABLE, GET STRING, LOOP STRING ON CABLE AND PULL TIGHT, PLACE KNOT ON HOOK, MOVE SHELL TO RECEPTACLE AND FIT TOGETHER, GET SCREWDRIVER AND TIGHTEN SHELL TO RECEPTA- CLE, ASIDE SCREWDRIVER, JACK/PLUG AND CABLE ENDS WITH ASIDE JACK/CABLE CONDITIONS-FOUR-WIRE EXTENSION CORD
FFD	823	MAA	KALED09	SMHJR01	2376	JACK/PLUG(INTERPHONE), REMOVE STARTS-WITH REACH TO GET JACK AND PLIERS(SIMO) INCLUDES-ALL THE MOTIONS NECESSARY TO GET AND MOVE PLIERS AND JACK TO WORK AREA, GRASP JACK WITH PLIERS, GET SCREWDRIVER, LOOSEN SHELL FROM INNER PART, ASIDE SCREWDRIVER, REMOVE INNER PART(RECEPTACLE) FROM SHELL, ASIDE SHELL, PLIERS AND RECEPTACLE, OPEN VISE, PLACE RECEPTACLE IN VISE AND TIGHTEN, GET SOLDERING IRON, PLACE IN HOLDER, PLUG IN, GET PLIERS, GRASP WIRE WITH PLIERS, GET SOLDERING IRON, UNSOLDER FOUR WIRES, ASIDE IRON, STRAIGHTEN WIRES, DISENGAGE WIRES, ASIDE PLIERS AFTER FOURTH WIRE IS DISENGAGED, UNPLUG SOLDERING IRON, LOOSEN VISE, REMOVE AND ASIDE RECEPTACLE ENDS-WITH ASIDE RECEPTACLE CONDITIONS-FOUR-WIRE EXTENSION CORD
AF	824	MAA	MOE=3Y	MDALI01	103	LAMP(FLUORESCENT), INSTALL IN LAMP HOLDER STARTS-WITH LAMP IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE LAMP AND POSITION FIRST END TO LAMP HOLDER, POSITION SECOND END TO HOLDER, MOVE EACH END TO SEAT, TURN LAMP TO LOCK, RELEASE LAMP ENDS-WITH RELEASE LAMP IN HOLDER
AF	824	MAA	MOE=4M2	MDAPI01	72	PANEL(ELECTRICAL METER), INSTALL STARTS-WITH PANEL IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE METER PANEL TO CHASSIS, POSITION PANEL AND ALIGN SCREW HOLES, CHECK ALIGNMENT ENDS-WITH CHECK ALIGNMENT CONDITIONS-4X8 INCH PANEL
AF	824	MAA	MOE=4M2	MDAPR01	42	PANEL(ELECTRICAL METER), REMOVE STARTS-WITH LEFT HAND HOLDING METER PANEL AT CHASSIS INCLUDES-ALL THE MOTIONS NECESSARY TO REACH TO PANEL WITH RIGHT HAND, GRASP AND REMOVE PANEL, RELEASE RIGHT HAND, TURN PANEL WITH LEFT HAND TO EXPOSE WIRING ENDS-WITH WIRING EXPOSED, PANEL IN HAND CONDITIONS-4X8 INCH PANEL

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY SOURCE	SOURCE CODE	DMWSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AF	824	MAA	MDE-3R1	SDALI01	524	<p>LEADS(LAMPSOCKET), INSERT THROUGH GROMMET STARTS=WITH REACH TO GET LAMP ASSEMBLY INCLUDES=ALL THE MOTIONS NECESSARY TO PICK UP LAMP ASSEMBLY AND TURN WITH RIGHT HAND,REACH TO FIRST WIRE LEAD WITH LEFT HAND,MOVE WIRE TO GROMMET AND INSERT LEAD THROUGH GROMMET, RELEASE WIRE,TURN LAMP ASSEMBLY 90 DEGREES AND REACH TO WIRE END THROUGH GROMMET,GRASP END AND PULL WIRE THROUGH GROMMET WITH CARE, RELEASE WIRE,TURN LAMP 90 DEGREES,REACH TO END OF SECOND WIRE,MOVE WIRE TO GROMMET AND INSERT IN GROMMET,RELEASE WIRE,TURN LAMP 90 DEGREES,GRASP END OF SECOND WIRE AND PULL THROUGH GROMMET WITH CARE,INSPECT GROMMET SEATING,ASIDE LAMP ASSEMBLY ENDS=WITH LAMP ASIDE CONDITIONS=INCANDESCENT LAMP=RUBBER GROMMET</p>
NF	824	MAF	712	MOHCl01	132	<p>CABLE,INSERT END IN BOX CONNECTOR STARTS=WITH REACH TO END OF CABLE INCLUDES=ALL MOTIONS NECESSARY TO POSITION END OF CABLE TO CONNECTOR,GET END OF CABLE WITH OTHER HAND,AND PULL CABLE INTO BOX ENDS=WITH RELEASE OF CABLE CONDITION=APPLICABLE TO BX,ROMEX,OR SIMILAR</p>
AF	824	MAA	MDE-4D	MWHWl01	50	<p>WIRE,INSERT THROUGH CLIP IN RACEWAY STARTS=WITH WIRE IN HAND INCLUDES=ALL THE MOTIONS NECESSARY TO MOVE WIRE THROUGH CLIP WITH RIGHT HAND,GRASP END WITH LEFT HAND AND PULL WIRE THROUGH RACEWAY, GUIDE WIRE WITH RIGHT HAND ENDS=WITH WIRE THROUGH RACEWAY(10 INCHES)AND HELD BY BOTH HANDS</p>
FFD	825	MAA	KALEA17	SCPCl01	1781	<p>CLAMP,INSTALL ON WIRE BUNDLE AND SECURE TO BULKHEAD STARTS=WITH REACH TO GET CLAMP INCLUDES=ALL THE MOTIONS NECESSARY TO GET CLAMP,MOVE TO PLIERS AND GRASP,TWIST PLIERS TO SHAPE CLAMP,ASIDE PLIERS,OPEN CLAMP,GET WIRE BUNDLE,PLACE CLAMP ON BUNDLE,CLOSE CLAMP, GET PLIERS AND FORM CLAMP ON BUNDLE,ASIDE PLIERS AND GET SCREWDRIVER AND PLACE IN CLAMP HOLE,PLACE CLAMP AND WIRE BUNDLE TO HOLE,PUT SCREW IN HOLE,PUT ON NUT,GET WRENCH AND TIGHTEN NUT,ASIDE TOOLS,CHECK CLAMP FOR SECURITY ENDS=WITH CLAMP CHECKED,TOOLS ASIDE CONDITIONS=SECURE BUNDLE TO BULKHEAD AND SIMILAR</p>
FFD	825	MAA	KALED17	SCPCr01	1173	<p>CLAMP(ECP),REMOVE FROM WIRE BUNDLE STARTS=WITH REACH TO SCREWDRIVER INCLUDES=ALL THE MOTIONS NECESSARY TO GET SCREWDRIVER,PALM,GET WRENCH,PLACE SCREW DRIVER IN SCREW SLOT AND WRENCH ON NUT,LOOSEN SCREW, REMOVE NUT,ASIDE SCREWDRIVER AND WRENCH,GET PLIERS,SQUEEZE SCREW FROM CLAMP,PALM PLIERS, REMOVE SCREW FROM CLAMP,PALM SCREW,GRASP AND SPREAD CLAMP,REMOVE CLAMP FROM WIRE BUNDLE, ASIDE CLAMP,SCREW AND PLIERS(SIM01) ENDS=WITH CLAMP,SCREW AND PLIERS ASIDE</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP-ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	825	MAA	KALED18	SCPCR02	1026	CLAMP, REMOVE FROM BULKHEAD STARTS=WITH REACH TO TOOLS INCLUDES=ALL THE MOTIONS NECESSARY TO GET SCREWDRIVER AND WRENCH, LOOSEN SCREW AND NUT HOLDING CLAMP TO BULKHEAD, ASIDE TOOLS, REMOVE AND ASIDE NUT, PULL CLAMP AND CABLE AWAY FROM BULKHEAD, REMOVE SCREW FROM CLAMP HOLE, PUT NUT BACK ON SCREW, RUN DOWN WITH FINGERS ENDS=WITH NUT ON SCREW CONDITIONS=APPLIES ONLY TO CLAMPS REMOVED FOR ACCESS AND LEFT ON WIRE BUNDLE
FFD	825	MAA	KALEA18	SCPWC01	1274	WIRE BUNDLE, CLAMP TO BULKHEAD STARTS=WITH REACH TO CLAMP AND NUT(SIM01) INCLUDES=ALL THE MOTIONS NECESSARY TO REMOVE SCREW AND NUT FROM CLAMP, POSITION CLAMP ALREADY ON BUNDLE TO MOUNTING HOLE, INSERT SCREW AND PUT NUT ON SCREW, GET WRENCH AND SCREWDRIVER, RUN DOWN AND TIGHTEN NUT, PALM TOOLS, CHECK CLAMP FOR SECURITY, ASIDE TOOLS ENDS=WITH ASIDE TOOLS CONDITIONS=APPLIES ONLY TO CLAMPS REMOVED FOR ACCESS AND LEFT ON WIRE BUNDLE
FFD	825	MAA	KALEW33	SWHWR01	1596	WIRE/WIRE BUNDLE, ROUTE IN AIRCRAFT STARTS=WITH REACH TO WIRE/WIRE BUNDLE INCLUDES=ALL THE MOTIONS NECESSARY TO GET WIRE OR WIRE BUNDLE, MOVE TO WORK AREA AND PUSH END INTO POSITION, BEND WIRE TO POSITION, INSERT WIRE/WIRE BUNDLE THROUGH OBSTRUCTION, GRASP END OF WIRE/WIRE BUNDLE, FEEL FOR END, GRASP AND PULL THROUGH LOOP, BEND WIRE, PULL WIRE/WIRE BUNDLE THROUGH OBSTRUCTION, GET AND UNWIRE ONE FOOT OF LACING CORD, TIE WIRE/WIRE BUNDLE IN TWO SPOTS, CUT CORD, ASIDE CUTTER ENDS=WITH KNOT TIED(TWO), CUTTER ASIDE CONDITIONS=PER FOOT ROUTED=USE WHEN ROUTING A BUNDLE OR WHEN ROUTING A WIRE ALONG EXISTING BUNDLE
FFD	825	MAA	KALEW43	SWHWT01	1296	WIRE BUNDLE, TIE TO TOMBSTONE STARTS=WITH REACH TO LACING CORD INCLUDES=ALL THE MOTIONS NECESSARY TO GET LACING CORD, UNWIND ONE FOOT, SECURE WIRE BUNDLE TO TOMBSTONE AND TIE IN TWO PLACES, CUT LACING CORD AND ASIDE CUTTER ENDS=WITH ASIDE CUTTER, TIE FINAL KNOT
NF	829	MAF	809	MOHFIXX VARIABLE		FUSE(ELECTRICAL), INSTALL STARTS=WITH FUSE IN HAND INCLUDES=ALL MOTIONS NECESSARY TO INSTALL FUSE IN HOLDER ENDS=WITH RELEASE OF FUSE 70 CASE 01 CARTRIDGE TYPE FUSE, FERRULE CONTACT, 3-60 AMPERE 115 02 CARTRIDGE TYPE FUSE, KNIFE BLADE CONTACT, .61-600 AMPERE 180 03 PLUG TYPE FUSE, 15-30 AMPERE
NF	829	MAF	3266	MOHSR01	144	STARTER(FLUORESCENT), REPLACE IN FIXTURE STARTS=WITH REACH TO STARTER INCLUDES=ALL MOTIONS NECESSARY TO REMOVE STARTER, TRANSFER STARTER TO OTHER HAND, GET NEW STARTER HELD IN OTHER HAND, AND INSTALL STARTER ENDS=WITH RELEASE OF STARTER CONDITIONS=NO TIME INCLUDED FOR TESTING STARTER. STARTER IN UNRESTRICTED LOCATION.

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY SOURCE CODE	DMWSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	829	MAF	705/6/7	STLBRXX VARIABLE	BULB, REPLACE WITH BULB CHANGER STARTS-WITH CHANGER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO LIFT CHANGER TO BULB, POSITION ON BULB, REMOVE BULB FROM SOCKET, LOWER CHANGER, REMOVE BULB FROM CHANGER, STOOP, GET NEW BULB FROM CARTON, PLACE OLD BULB IN CARTON, ARISE, PLACE BULB IN CHANGER, LIFT BULB AND CHANGER TO SOCKET, SCREW BULB IN SOCKET, AND LOWER CHANGER FROM BULB ENDS-WITH BULB CHANGER IN HAND CONDITIONS-APPLICABLE TO CHANGING OVERHEAD INCANDESCENT BULBS TO 750 WATTS 1340 CASE 01 CHANGE BULB WITH 9-FOOT CHANGER 1587 02 CHANGE BULB WITH 18-FOOT CHANGER 1826 03 CHANGE BULB WITH 27-FOOT CHANGER
NF	844	MAF	1303	MACMD01	593 MIXTURE(DRY AGGREGATE), DUMP INTO MIXER FROM HOPPER STARTS-WITH REACH TO DUMP HANDLE INCLUDES-ALL MOTIONS NECESSARY TO MOVE DUMP HANDLE TO OPEN HOPPER, GET VIBRATOR HANDLE, VIBRATE HOPPER BY HAND TO EMPTY CONTENTS, AND CLOSE HOPPER ENDS-WITH RELEASE OF HANDLE CONDITIONS-APPLICABLE TO DUMPING 3 1/2 CUBIC FEET OF MIXED DRY AGGREGATE
NF	844	MAF	1362	SDHCA01	462 CHUTE(EXTENSION), ATTACH TO TRANSIT MIXER STARTS-WITH REACH TO EXTENSION INCLUDES-ALL MOTIONS NECESSARY TO REMOVE EXTENSION FROM STORAGE ON TRUCK, TURN, WALK 10 PACES TO REAR OF TRUCK, AND ATTACH EXTENSION CHUTE TO MIXER ENDS-WITH RELEASE OF EXTENSION CONDITIONS-EXTENSION WEIGHS APPROXIMATELY 40 POUNDS
NF	844	MAF	1368/70	MTLCC01	3699 CONCRETE, CHIP WITH CHISEL AND HAMMER, SEVEN CUBIC INCHES STARTS-WITH CHISEL AND HAMMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO STRIKE CHISEL WITH HAMMER TO REMOVE SEVEN CUBIC INCHES OF CONCRETE AND USE CHISEL TO PUSH AWAY DEBRIS ENDS-WITH TOOLS IN HAND
NF	844	MAF	1415	MTPHE01	273 HANDLES(GUIDE), EXTEND OR RETRACT, CONCRETE SAW STARTS-WITH REACH TO HANDLE LOCK KNOB INCLUDES-ALL MOTIONS NECESSARY TO LOOSEN LOCK KNOB, PULL HANDLE OUT, TIGHTEN LOCK KNOB, SIDESTEP TO OTHER HANDLE, LOOSEN LOCK KNOB, PULL HANDLE OUT, AND TIGHTEN LOCK KNOB ENDS-WITH RELEASE OF KNOB
NF	844	MAF	1412	MTPHP01	272 HAMMER(PNEUMATIC), POSITION FOR DRILLING AND REMOVE AFTER DRILLING STARTS-WITH BEND TO HAMMER INCLUDES-ALL MOTIONS NECESSARY TO PICK UP HAMMER AND MOVE TO SPOT FOR DRILLING; AND TO REMOVE HAMMER AND ASIDE AT FLOOR LEVEL ENDS-WITH ARISE FROM BEND CONDITIONS-HAMMER WEIGHS APPROXIMATELY 90 POUNDS
NF	844	MAF	1497	MTPSA01	177 SPEED, ADJUST ON SELF-PROPELLING UNIT OF CONCRETE SAW STARTS-WITH RELEASE OF HANDLES OF SAW INCLUDES-ALL MOTIONS NECESSARY TO TAKE ONE STEP BACKWARD, STOOP, TURN KNOB THREE REVOLUTIONS, ARISE, AND WALK ONE PACE FORWARD ENDS-WITH GRASP HANDLES

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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NF	844	MAF	1498/99	MTPUE01	342	UNIT(SELF-PROPELLING), ENGAGE AND DISENGAGE, CONCRETE SAW STARTS-WITH REACH TO HANDLES INCLUDES-ALL MOTIONS NECESSARY TO HOLD HANDLES AND ACTUATE LEVER WITH FOOT MOTION TO ENGAGE UNIT;AND TO HOLD HANDLES AND ACTUATE LEVER WITH FOOT MOTION TO DISENGAGE UNIT ENDS-WITH HAND ON HANDLES
NAA	845	MAA	JPAADXX	MPAPSXX VARIABLE		PAINT,SPRAY ON AIRCRAFT SURFACE,PER TEN SQUARE FEET STARTS-WITH SPRAY GUN IN HAND INCLUDES-ALL MOTIONS NECESSARY TO SPRAY TEN SQUARE FEET(FOUR PASSES PER SQUARE FOOT),MOVE HOSE,AND MOVE TO ADJACENT AREA FOR PAINTING ENDS-WITH OPERATOR READY TO PAINT ADJACENT AREA 998 CASE 01 SPRAY TEN SQUARE FEET WITH EPOXY PAINT OR ACRYLIC LACQUER,SPRAY WITH FOUR INCH FAN 593 - 02 SPRAY TEN SQUARE FEET WITH EPOXY OR ACRYLIC PRIMER,SPRAY WITH SIX-INCH FAN
NAA	845	MUA	JPAASRA	SPAAT01	26690	ARROW(RESUCE),INSTALL ON AIRCRAFT STARTS-WITH REACH TO GET MEASURING DEVICE INCLUDES-ALL THE MOTIONS NECESSARY TO MARK POSITION TO PLACE TEMPLATE,TEMPORARY TAPE TEMPLATE TO AIRCRAFT,MASK OUTLINE TWO TIMES,PAINT YELLOW AND RESUCE BLACK,TWO COATS EACH,REMOVE MASK,USE WORKSTAND ONE TIME TO PAINT AND ONE TIME TO MASK ENDS-WITH DESCENT FROM WORKSTAND,ASIDE PAINT AND TEMPLATES CONDITIONS-ARROW TO 24 INCHES.FOUR STEP ASCENT/DESCENT OF WORKSTAND.
NAA	845	MUA	JPAASNA	SPAI01	80610	INSIGNIA(NATIONAL-STAR),INSTALL ON AIRCRAFT STARTS-WITH REACH TO GET MEASURING DEVICE INCLUDES-ALL THE MOTIONS NECESSARY TO MARK LOCATION OF STAR,GET STAR AND POSITION ON AIRCRAFT,APPLY TEMPORARY TAPE TO HOLD TEMPLATE ONCE FOR EACH COLOR,MASK ONCE FOR EACH COLOR AND REMOVE,PAINT THREE COLORS,TWO COATS EACH, WAIT ONE MINUTE BETWEEN COATS,ATTACH AND REMOVE BARRIER PAPER,USE WORK STAND ONCE PER COLOR,ONCE PER MASK AND ONCE PER UNMASK ENDS-WITH DESCENT FROM WORKSTAND,ASIDE PAINT AND TEMPLATE CONDITIONS-PAINT EIGHT SQUARE FEET WITH SPRAY GUN,30-40 INCH INSIGNIA.FOUR STEP ASCENT/DESCENT OF WORKSTAND.
NF	853	MAF	2278	SDHWR01	200	WRAPPING(PAPER),REMOVE FROM 100-POUND BUNDLE OF ASPHALT STARTS-WITH GET BUNDLE OF ASPHALT INCLUDES-ALL MOTIONS NECESSARY TO PLACE BUNDLE OF ASPHALT ON SIDE,GET AXE,CUT PAPER WRAPPING ON ASPHALT,ASIDE AXE,AND TEAR PAPER TO EXPOSE ASPHALT ENDS-WITH RELEASE OF PAPER
NF	853	MAF	997	MTLMS01	776	MIX(HOT BITUMINOUS),SPREAD WITH RAKE,PER SQUARE YARD STARTS-WITH RAKE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE RAKE BACK AND FORTH THROUGH MIX TO SPREAD ENDS-WITH RAKE IN HAND

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DMWSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	853	MAF	2279	STLA801	350	<p>ASPHALT, BREAK INTO PIECES WITH AXE, 100=POUND BUNDLE</p> <p>STARTS=WITH REACH TO AXE INCLUDES=ALL MOTIONS NECESSARY TO USE AXE TO BREAK ASPHALT INTO PIECES FOR FEEDING INTO ASPHALT KETTLE</p> <p>ENDS=WITH ASIDE AXE</p>
NF	86X	MAF	2081/82	MACSL01	992	<p>SCAFFOLD(PORTABLE),LOCK AND UNLOCK WHEELS</p> <p>STARTS=WITH TURN TO WHEEL INCLUDES=ALL MOTIONS NECESSARY TO WALK TWO PACES,TURN TO WHEEL,USE FOOT TO ACTUATE LEVER TO LOCK WHEEL;TURN,WALK TWO PACES,STOOP,GET LEVER,PULL TO RELEASE WHEEL,AND ARISE.NOTE= THIS MOTION SEQUENCE IS REPEATED FOR EACH OF FOUR WHEELS.</p> <p>ENDS=WITH WHEELS UNLOCKED CONDITIONS=NO TIME INCLUDED FOR MOVING SCAFFOLD</p>
NF	86X	MAF	1397	MITFM01	922	<p>FRAME(DOOR),MEASURE AND CENTER IN OPENING</p> <p>STARTS=WITH RULE IN HAND INCLUDES=ALL MOTIONS NECESSARY TO MEASURE ONE SIDE OF DOORWAY,TURN TO OTHER SIDE OF DOORWAY, MEASURE,BEND,MEASURE BOTTOM OF DOORWAY,ARISE, TURN TO OTHER SIDE OF DOORWAY,GET HAMMER,TAP FRAME SIX TIMES TO CENTER,BEND,MEASURE DOORWAY,TAP FRAME SIX TIMES TO CENTER,MEASURE, ARISE,MEASURE TOP OF DOORWAY AND ASIDE HAMMER AND RULE</p> <p>ENDS=WITH RELEASE OF TOOLS CONDITIONS=DOES NOT INCLUDE TIME FOR INSTALLING WEDGES TO HOLD DOOR FRAME IN PLACE. APPLICABLE TO INSTALLATION OF STEEL DOOR FRAME IN BRICK OR MASONRY WALL.</p>
NF	86X	MAF	1396	SITFC01	1041	<p>FRAME(DOOR),CHECK FOR VERTICAL ALIGNMENT WITH LEVEL</p> <p>STARTS=WITH REACH TO LEVEL INCLUDES=ALL MOTIONS NECESSARY TO GET LEVEL, POSITION LEVEL TO FRONT OF FRAME,CHECK READING,POSITION LEVEL TO SIDE OF FRAME,CHECK READING,POSITION LEVEL TO REAR OF FRAME,CHECK READING,POSITION LEVEL TO OTHER SIDE OF DOORWAY,POSITION LEVEL TO REAR OF FRAME,CHECK READING,POSITION LEVEL TO SIDE OF FRAME,CHECK READING,POSITION LEVEL TO FRONT OF FRAME,CHECK READING,AND ASIDE LEVEL</p> <p>ENDS=WITH RELEASE OF LEVEL CONDITION=NO TIME INCLUDED FOR CORRECTING ALIGNMENT OF DOOR FRAME.APPLICABLE TO INSTALLATION OF STEEL DOOR FRAME IN BRICK OR MASONRY WALL</p>
NF	86X	MAF	23	MJPB001	112	<p>BLOCK(SANDING),OBTAIN AND ATTACH SANDPAPER</p> <p>STARTS=WITH REACH TO BLOCK INCLUDES=ALL MOTIONS NECESSARY TO GET BLOCK, GET SANDPAPER,AND WRAP PAPER AROUND BLOCK</p> <p>ENDS=WITH BLOCK IN HAND CONDITION=NO TIME INCLUDED FOR TEARING SANDPAPER</p>
NF	86X	MAF	2578	SJPBC01	380	<p>BELT,CHANGE ON HAND HELD SANDING MACHINE</p> <p>STARTS=WITH REACH TO SANDING MACHINE INCLUDES=ALL MOTIONS NECESSARY TO TURN MACHINE ON SIDE,RELEASE BELT,REMOVE BELT FROM ROLLERS, ASIDE BELT,GET NEW BELT,POSITION BELT OVER ROLLERS,MOVE HANDLE TO TIGHTEN BELT,TURN MACHINE UPRIGHT,AND ADJUST BELT TENSION</p> <p>ENDS=WITH RELEASE OF MACHINE</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	86X	MAF	34	MMHOR01	886	OBJECT, RAISE AND LOWER WITH MANUALLY OPERATED HOIST, AVERAGE 28-FOOT HEIGHT STARTS=WITH REACH TO HOIST ROPE INCLUDES=ALL MOTIONS NECESSARY TO RAISE OBJECT AN AVERAGE OF 28 FEET (OPERATOR STEPS BACK SEVEN PACES WHILE RAISING), AND TO STEP FORWARD SEVEN PACES TO LOWER OBJECT ENDS=WITH RELEASE OF HOIST ROPE CONDITION=RESISTANCE TO RAISING HOIST IS 45 POUNDS ENW. TIME TO ATTACH OR REMOVE OBJECT NOT INCLUDED.
NF	86X	MAF	1301	MNFAAO1	367	ADHESIVE, APPLY TO FLOOR WITH SERRATED TROWEL, PER SQUARE FOOT STARTS=WITH TROWEL IN HAND INCLUDES=ALL MOTIONS NECESSARY TO MOVE TROWEL TO CONTAINER OF ADHESIVE, OBTAIN ADHESIVE ON TROWEL, AND SPREAD ADHESIVE ON FLOOR ENDS=WITH TROWEL IN HAND
NF	86X	MAF	1325	MNFBI01	876	BRACE(BOTTOM), INSTALL IN METAL DOOR FRAME STARTS=WITH BRACE, RIVETS, AND EXPANDER IN HAND INCLUDES=ALL MOTIONS NECESSARY TO KNEEL ON BOTH KNEES, ASIDE BRACE, ASIDE RIVET EXPANDER, PLACE FOUR RIVETS THROUGH HOLES IN FRAME, GET BRACE, PLACE OVER RIVETS, GET EXPANDER FOUR TIMES, EXPAND RIVETS, AND ASIDE EXPANDER ENDS=WITH ARISE CONDITION=TWO RIVETS INSTALLED IN EACH END OF BRACE
NF	86X	MAF	1326	SNFB101	380	BRACE(CENTER), INSTALL IN METAL DOOR FRAME STARTS=WITH GET WEDGE INCLUDES=ALL MOTIONS NECESSARY TO GET BRACE, TURN TO DOOR FRAME, POSITION BRACE, POSITION WEDGE TO HOLD BRACE, GET HAMMER, AND TAP WEDGE TO TIGHTEN BRACE ENDS=WITH ASIDE HAMMER
NF	86X	MAF	1398	SNFWI01	251	WEDGE, INSTALL TO HOLD DOOR FRAME IN PLACE STARTS=WITH GET TWO WEDGES(ONE IN EACH HAND) INCLUDES=ALL MOTIONS NECESSARY TO MOVE WEDGES TO FRAME, INSERT BY HAND, GET HAMMER, TAP EACH WEDGE TWO TIMES, AND ASIDE HAMMER ENDS=WITH RELEASE OF HAMMER CONDITIONS=DUE TO THE NATURE OF THE WEDGES, THIS ELEMENT DOES NOT INCLUDE THE INSTALLATION OF WEDGES TO LEVEL FRAME
NF	86X	MAF	1399	SNFWI02	458	WEDGE, INSTALL TO RAISE AND LEVEL DOOR FRAME STARTS=WITH GET WEDGE INCLUDES=ALL MOTIONS NECESSARY TO KNEEL ON BOTH KNEES, INSERT WEDGE BY HAND, GET HAMMER, STRIKE WEDGE FOUR TIMES, GET SECOND WEDGE, INSERT BY HAND, STRIKE WEDGE FOUR BLOWS WITH HAMMER, AND ASIDE HAMMER ENDS=WITH ARISE
NF	86X	MAF	2946	MOHC001	256	CUTTER(GASKET), OBTAIN FROM CASE AND PUT AWAY STARTS=WITH GET CASE INCLUDES=ALL MOTIONS NECESSARY TO OPEN CASE, REMOVE CUTTER FROM CASE, GET CUTTER, REPLACE IN CASE, AND CLOSE CASE ENDS=WITH ASIDE CASE
NF	86X	MAF	84	MOHFU01	352	FELT(ROOFING), UNROLL 15 FEET STARTS=WITH KNEEL TO ROLL OF FELT INCLUDES=ALL MOTIONS NECESSARY TO ALIGN FELT FOR UNROLLING, START UNROLLING, ARISE, AND WALK AND KICK ROLL OF FELT TO UNROLL A 15-FOOT LENGTH ENDS=WITH FELT UNROLLED CONDITIONS=ROLL OF FELT PREVIOUSLY OBTAINED AND PLACED IN APPROXIMATE POSITION

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DMWSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	86X	MAF	3311	MOHGRO1	245	GASKET, REMOVE FROM CUTTING BOARD AND ASIDE SCRAP STARTS-WITH GET HAMMER INCLUDES-ALL MOTIONS NECESSARY TO REMOVE TWO PINS WITH CLAW HAMMER, ASIDE HAMMER, AND ASIDE GASKET ENDS-WITH ASIDE SCRAP MATERIAL
NF	86X	MAF	1404	SOHAF01	296	FRAME(AND ANCHORS), ADJUST IN OPENING, METAL DOOR FRAME STARTS-WITH REACH TO DOOR FRAME INCLUDES-ALL MOTIONS NECESSARY TO MOVE FRAME SLIGHTLY TO ADJUST, SIDESTEP AND STOOP TO LOWER ANCHOR, POSITION AND CHECK VISUALLY, ARISE, POSITION AND CHECK MIDDLE ANCHOR, AND POSITION AND CHECK TOP ANCHOR ENDS-WITH FRAME AND ANCHORS ADJUSTED
NF	86X	MAF	1400	SOHFA01	1613	FRAME(METAL DOOR), ASSEMBLE STARTS-WITH KNEEL ON BOTH KNEES, HAMMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO ASIDE HAMMER, GET ONE SIDE FRAME AND MOVE NEAR TOP, GET TOP AND PREPOSITION TO SIDE, GET SIDE FRAME AND POSITION TO INSERT LUGS IN HOLES, GET HAMMER, STRIKE TOP TO SEAT, BEND LUGS OVER WITH HAMMER, ASIDE HAMMER, BEND OVER FRAME, INSPECT WORK, AND ARISE FROM BEND. NOTE-THIS MOTION SEQUENCE IS REPEATED FOR SECOND SIDE FRAME. ENDS-WITH ARISE FROM KNEELING POSITION CONDITIONS-DOES NOT INCLUDE TIME TO GET AND PLACE COMPONENT PARTS
NF	86X	MAF	3435	MTLBA01	411	BLADE(GASKET CUTTER), ADJUST WITH CLAMPING SCREWS STARTS-WITH CUTTER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GET SCREWDRIVER, LOSEN TWO CLAMPING SCREWS, ADJUST BLADE HEIGHT, TIGHTEN SCREWS, AND ASIDE CUTTER ENDS-WITH ASIDE SCREWDRIVER
NF	86X	MAF	1688	MTLB01	538	BOB(PLUMB), USE STARTS-WITH PLUMB BOB IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE PLUMB BOB TO ATTACHING POINT, WRAP CORD TO ATTACH, LOWER PLUMB BOB, POSITION CORD ON MARK, ADJUST CORD LENGTH, STOOP TO PLUMB BOB, STOP PLUMB BOB FROM SWINGING, ARISE, AND REMOVE PLUMB BOB ENDS-WITH PLUMB BOB IN HAND
NF	86X	MAF	3436	MTLCA01	176	CUTTER(GASKET), ADJUST TO SIZE FOR RING GASKET STARTS-WITH REACH TO CUTTER INCLUDES-ALL MOTIONS NECESSARY TO GET CUTTER, LOSEN THUMB SCREW, POSITION SIZE INDICATOR, AND TIGHTEN THUMB SCREW ENDS-WITH CUTTER IN HAND
NF	86X	MAF	3737	MTLC01	173	CUTTER(GASKET), POSITION TO BOARD AND REMOVE STARTS-WITH REACH FOR GASKET CUTTER INCLUDES-ALL MOTIONS NECESSARY TO MOVE PIVOT PIN TO CENTER MARK ON GASKET MATERIAL, PRESS PIN INTO MATERIAL, AND POSITION IN CENTER HOLE; AND DISENGAGE PIVOT PIN AND MOVE CUTTER ASIDE ENDS-WITH RELEASE OF CUTTER
NF	86X	MAF	113	MTLGL01	125	GUN(CAULKING), LOAD WITH CARTRIDGE STARTS-WITH GET CAULKING GUN INCLUDES-ALL MOTIONS NECESSARY TO TURN AND MOVE HANDLE BACK, GET CARTRIDGE, POSITION IN GUN, TURN HANDLE, AND ACTUATE TRIGGER TO BRING PLUNGER TO END OF CARTRIDGE ENDS-WITH RELEASE OF TRIGGER CONDITION-APPLICABLE TO HALF CYLINDER, CARTRIDGE TYPE CAULKING GUN

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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NF	86X	MAF	340/341	MPTCOL	578	TOOL,CONNECT TO AND DISCONNECT FROM EXTENSION CORD LYING ON FLOOR STARTS=WITH LOOK TO END OF TOOL CORD INCLUDES=ALL MOTIONS NECESSARY TO WALK FOUR PACES,BEND TO END OF TOOL CORD,GET CORD,ARISE,WALK FOUR PACES TO END OF EXTENSION CORD,BEND,GET END OF EXTENSION CORD,PLUG TOOL INTO EXTENSION CORD,PLACE CORD ON FLOOR,AND ARISE; AND LOOK FOR CORD CONNECTION,WALK FOUR PACES,BEND,GET CORD,SEPARATE TOOL CORD FROM EXTENSION,AND ASIDE CORD ENDS ENDS=WITH ARISE FROM BEND
AE	860	MAW	FCHEAP1	MJPBH01	75	BOARD,HOLD FOR SAWING STARTS=WITH REACH TO BOARD INCLUDES=ALL THE MOTIONS NECESSARY TO REACH TO BOARD;MOVE BOARD TO POSITION,PUT KNEE ON BOARD;REMOVE-KNEE FROM BOARD AND RELEASE BOARD ENDS=WITH RELEASE BOARD CONDITIONS=NO TIME INCLUDED FOR SAWING
NF	860	MAF	336/337	MJPBI01	234	BIT,INSTALL IN AND REMOVE FROM BRACE STARTS=WITH REACH TO BIT;BRACE IN HAND INCLUDES=ALL MOTIONS NECESSARY TO PICK UP BIT,POSITION IN CHUCK,AND TIGHTEN CHUCK;AND LOOSEN CHUCK,AND REMOVE BIT ENDS=WITH ASIDE BRACE AND BIT
AE	860	MAW	FCHEAII	MJPBT02	173	BIT,INSTALL IN AND REMOVE FROM HAND DRILL STARTS=WITH MOVE BIT TO CHUCK INCLUDES=ALL MOTIONS NECESSARY TO POSITION DRILL INTO CHUCK,TIGHTEN CHUCK;LOOSEN AND RELEASE CHUCK ENDS=WITH RELEASE CHUCK
AE	860	MAW	FCHEAB2	MJPBI03	102	BIT,INSTALL IN AND REMOVE FROM SPIRAL DRILL STARTS=WITH GET HOLD OF CHUCK INCLUDES=ALL MOTIONS NECESSARY TO OPEN SPRING CHUCK,INSERT DRILL IN CHUCK,LOCK CHUCK AND MOVE DRILL READY FOR USE;MOVE DRILL AND OPEN CHUCK,REMOVE DRILL AND RELEASE CHUCK SPRING ENDS=WITH RELEASE SPRING
NF	860	MAF	117	MOHCA01	111	CARTRIDGE,ASSEMBLE TO STUD STARTS=WITH GET STUD INCLUDES=ALL MOTIONS NECESSARY TO GET CARTRIDGE AND ASSEMBLE TO STUD ENDS=WITH ASIDE ASSEMBLY
AF	860	MAW	FCHEAW1	MOHNG01	65	NAILS,GET FROM BOX STARTS=WITH REACH TO BOX OF NAILS INCLUDES=ALL MOTIONS NECESSARY TO GET A HANDFUL OF NAILS ENDS=WITH MOVE HAND AWAY FROM BOX
NF	860	MAF	328	MOHPL01	704	PARTITION(ASSEMBLED),LIFT FROM FLOOR AND POSITION TO MARKS STARTS=WITH KNEEL TO GET PARTITION INCLUDES=ALL MOTIONS NECESSARY TO GRASP TOP PLATE,ARISE FROM FLOOR WITH PARTITION,LIFT PARTITION TO VERTICAL POSITION,AND POSITION PARTITION TO MARKS AT BOTTOM AND TOP ENDS=WITH HANDS ON PARTITION CONDITION=APPLICABLE TO PARTITION WITH ENW TO 160 POUNDS.TIME VALUE IS TOTAL FOR TWO OPERATORS

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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NF	860	MAF	194	M0HPP01	277	PLATE(FOUNDATION),MAKE LEVEL WITH SHIMS STARTS=WITH KNEEL TO PLATE INCLUDES=ALL MOTIONS NECESSARY TO RAISE PLATE, GET TWO SHIMS, AND INSERT SHIMS UNDER PLATE ENDS=WITH ARISE CONDITION=TIME TO GET AND POSITION PLATE NOT INCLUDED
NF	860	MAF	195	M0HPP01	441	PLATE(FOUNDATION),POSITION TO BOLTS SET IN CONCRETE STARTS=WITH PLATE IN HANDS INCLUDES=ALL THE MOTIONS NECESSARY TO BEND TO FOUNDATION AND POSITION PLATE ON BOLTS ENDS=WITH ARISE FROM BEND CONDITIONS=APPLICABLE TO INSTALLATION OF 2" X 4" OR 2" X 6" PLATE 12 FEET LONG WITH BOLT HOLES ON 4-FOOT CENTERS, TIME VALUE IS FOR TWO OPERATORS.
AE	860	MAW	FCHEAG1	MTLBP01	69	BIT(AND BRACE),POSITION FOR DRILLING AND REMOVE STARTS=WITH MOVE DRILL TO MARK INCLUDES=ALL THE MOTIONS NECESSARY TO POSITION DRILL BIT TO MARK,PUSH POINT OF BIT INTO WOOD; DIENGAGE BIT FROM HOLE AND MOVE BRACE FROM WORK AREA ENDS=WITH BRACE IN HANDS,MOVED FROM HOLE CONDITIONS=DOES NOT INCLUDE TIME FOR DRILLING HOLE OR TURNING BRACE TO REMOVE BRACE. APPLICABLE TO BRACE AND BIT OR HAND DRILL
NF	860	MAF	252	MTLBSXX VARIABLE	BOARD,SAW IN MITER BOX STARTS=WITH BOARD IN HAND INCLUDES=ALL MOTIONS NECESSARY TO GET SAW HANDLE,LIFT SAW,POSITION BOARD IN BOX,POSITION SAW TO BOARD,AND MAKE ONE FORWARD AND ONE RETURN STROKE WITH SAW ENDS=WITH RELEASE OF SAW HANDLE;BOARD IN BOX CASE 01 POSITION BOARD AND MAKE ONE STROKE (FORWARD AND RETURN)WITH SAW 02 EACH ADDITIONAL STROKE WITH SAW	
AE	860	MAW	FCHEAZ1	MTLDP01	105	DRILL(SPIRAL),POSITION TO MARK AND REMOVE STARTS=WITH MOVE TOOL TO MARK INCLUDES=ALL THE MOTIONS NECESSARY TO MOVE DRILL,POSITION TO MARK;DIENGAGE DRILL FROM HOLE ENDS=WITH DRILL DIENGAGED FROM HOLE
AE	860	MAW	FCHEAAZ2	MTLHD01	18	DRILL(SPIRAL),POSITION TO MARK AND REMOVE STARTS=WITH MOVE TOOL TO MARK INCLUDES=ALL THE MOTIONS NECESSARY TO MOVE DRILL,POSITION TO MARK;DIENGAGE DRILL FROM HOLE ENDS=WITH DRILL DIENGAGED FROM HOLE
NF	860	MAF	322	MTLLS01	281	HOLE,DRILL WITH SPIRAL DRILL,PER STROKE STARTS=WITH DRILL IN POSITION FOR USE INCLUDES=ALL MOTIONS NECESSARY TO PUSH SPIRAL DRILL DOWN AND RETURN ENDS=WITH END OF RETURN STROKE
AE	860	MAW	FCHEAX1	MTLNP01	59	LINE,STRIKE WITH CHALK LINE STARTS=WITH LINE HELD NEAR REFERENCE POINTS BY TWO OPERATORS INCLUDES=ALL MOTIONS NECESSARY TO MOVE LINE TO REFERENCE POINTS,HOLD,GET CHALK LINE,RAISE VERTICALLY,AND RELEASE CORD TO STRIKE LINE ENDS=WITH LINE ON SURFACE CONDITION=TIME VALUE IS TOTAL FOR TWO OPERATORS
AE	860	MAW	FCHEAX1	MTLNP01	60	NAIL,POSITION AND START TO DRIVE WITH HAMMER STARTS=WITH MOVE NAIL FROM PALM TO FINGERS INCLUDES=ALL MOTIONS NECESSARY TO GET NAIL FROM PALM,MOVE,POSITION AND HOLD NAIL,MOVE HAMMER AND TAP NAIL TO START(ONE BLOW) ENDS=WITH NAIL STARTED INTO BOARD

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

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NF	860	MAF	263	MTLNSXX VARIABLE		<p>NAIL,START IN BOARD STARTS-WITH SIMO GET NAILS FROM POCKET AND HAMMER FROM LOOP INCLUDES-ALL MOTIONS NECESSARY TO POSITION NAIL,AND STRIKE NAIL TWO BLOWS WITH HAMMER TO START IN BOARD ENDS-WITH HAMMER IN HAND CONDITION-APPLICABLE TO PRE-NAILING FASCIA STRIPS,ETC.</p> <p>99 72</p> <p>CASE 01 FIRST NAIL 02 EACH ADDITIONAL NAIL(POSITION AND STRIKE NAIL ONLY)</p>
AE	860	MAW	FCHEAB1	MTLPA01	192	<p>PLANE(HAND),ADJUST STARTS-WITH PLANE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO TURN PLANE, CHECK FOR BLADE HEIGHT,ADJUST BLADE HEIGHT BY TURNING ADJUSTING KNOB,MOVE LEVER TO ADJUST LEVEL,TURN PLANE OVER AND MOVE TOWARDS WORK BOARD ENDS-WITH PLANE IN HANDS,READY TO POSITION IT CONDITIONS-PLANE WEIGHS APPROXIMATELY 10 POUNDS</p>
AE	860	MAW	FCHSDXX	STLDHXX VARIABLE		<p>HOLE,DRILL WITH SPIRAL DRILL(ONE INCH HOLE) STARTS-WITH GET DRILL INCLUDES-ALL MOTIONS NECESSARY TO GET DRILL, GET AND INSTALL DRILL BIT,POSITION DRILL TO MARK AND DRILL HOLE,REMOVE BIT FROM DRILL AND ASIDE DRILL AND BIT;OR MOVE TO ADDITIONAL MARK AND DRILL HOLE ENDS-WITH ASIDE DRILL OR REMOVE DRILL FROM HOLE CONDITIONS-APPROXIMATELY FIVE STROKES REQUIRED TO DRILL HOLE</p> <p>385</p> <p>CASE 01 DRILL FIRST HOLE ONE INCH DEEP WITH SPIRAL DRILL 152 02 DRILL ADDITIONAL HOLE ONE INCH DEEP WITH SPIRAL DRILL</p>
AE	860	MAW	FCHNLXX	STLNRXX VARIABLE		<p>NAIL,REMOVE WITH HAMMER STARTS-WITH GET HAMMER INCLUDES-ALL MOTIONS NECESSARY TO GET HAMMER, POSITION CLAWS TO NAIL,PULL NAIL OUT,REMOVE NAIL FROM HAMMER CLAWS AND ASIDE NAIL AND HAMMER;OR MOVE HAMMER TO NEXT NAIL,REMOVE AND ASIDE NAIL ENDS-WITH ASIDE HAMMER OR NAILS</p> <p>124 86</p> <p>CASE 01 REMOVE FIRST NAIL 02 REMOVE ADDITIONAL NAIL</p>
NF	860	MAF	116	MTPG001	99	<p>GUN(POWDER ACTUATED),OPEN AND CLOSE STARTS-WITH REACH TO GUN INCLUDES-ALL MOTIONS NECESSARY TO GET GUN, PRESS LEVER DOWN,OPEN GUN STOCK,PRESS LEVER DOWN,CLOSE GUN STOCK,AND MOVE LEVER TO LOCK ENDS-WITH RELEASE OF LEVER,GUN IN HAND</p>
NF	860	MAF	115	MTPGP01	221	<p>GUN(POWDER ACTUATED),POSITION AND FIRE ONE BOLT OR STUD STARTS-WITH STUD GUN IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE GUN TO POSITION,AND FIRE GUN ENDS-WITH ASIDE GUN</p>
DNF	860	MAF	STPSI01	STPSI01	494	<p>STUD,INSTALL WITH POWDER ACTUATED GUN STARTS-WITH REACH FOR STUD INCLUDES-ALL MOTIONS NECESSARY TO GET STUD,GET CARTRIDGE,ASSEMBLE STUD AND CARTRIDGE,GET GUN, OPEN GUN,INSTALL CARTRIDGE AND STUD ASSEMBLY, CLOSE GUN,POSITION GUN,FIRE STUD,AND ASIDE GUN ENDS-WITH RELEASE OF GUN</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	861	MAF	1436	MNFMA01	82	MORTAR, APPLY TO ONE END AND ONE SIDE OF BRICK STARTS-WITH TROWEL AND BRICK IN HAND INCLUDES-ALL MOTIONS NECESSARY TO APPLY MORTAR TO END OF BRICK, TURN BRICK, AND APPLY MORTAR TO SIDE OF BRICK ENDS-WITH TROWEL AND BRICK IN HAND CONDITIONS-TIME TO OBTAIN MORTAR ON TROWEL NOT INCLUDED
NF	861	MAF	1443	MNFMA02	244	MORTAR, APPLY ON THREE BRICK LENGTHS; FURROW AND CUT JOINT STARTS-WITH TROWEL LOADED WITH MORTAR IN HAND INCLUDES-ALL MOTIONS NECESSARY TO THROW MORTAR ON THREE BRICKS, FURROW JOINT, AND CUT JOINT WITH TROWEL ENDS-WITH TROWEL IN HAND
NF	861	MAF	1506	MNFMA03	28	MORTAR, APPLY TO ONE END OF BRICK STARTS-WITH BRICK AND TROWEL FILLED WITH MORTAR IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE TROWEL TO BRICK AND PRESS MORTAR ON ONE END ENDS-WITH BRICK AND TROWEL IN HAND
NF	861	MAF	1331/32	MOHBOXX VARIABLE	198 229	BRICK(FIRE), DIP IN ADHESIVE STARTS-WITH FIRE BRICK IN HAND INCLUDES-ALL MOTIONS NECESSARY TO SIDESTEP 440 STOP TO ADHESIVE PAN, DIP BRICK IN ADHESIVE, REMOVE, AND SHAKE TO REMOVE EXCESS ENDS-WITH ARISE AND TURN TO INSTALLATION POINT CASE 01 DIP TWO SIDES OF BRICK 02 DIP THREE SIDES OF BRICK
NF	861	MAF	1329	MOHB001	169	BRICK, DRAIN AND WET, PREPARATORY TO INSTALLATION STARTS-WITH TURN TO PILE OF BRICKS INCLUDES-ALL MOTIONS NECESSARY TO BEND, GET BRICK, MOVE BRICK IN AND OUT OF CONTAINER OF WATER, ARISE, AND TURN TO WALL ENDS-WITH BRICK IN HAND
NF	861	MAF	1337	MOHB001	280	BRICK(FIRE), PLACE AND TAP INTO POSITION STARTS-WITH BRICK AND TROWEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE BRICK TO WALL AND POSITION; TAP END, SIDE, AND TOP OF BRICK WITH TROWEL ENDS-WITH BRICK IN PLACE CONDITIONS-APPLICABLE TO REPAIR WORK ONLY
NF	861	MAF	1310	MOHB001	591	BED(MORTAR SETTING), SMOOTH PRIOR TO LEVELING, PER FOUR SQUARE FEET STARTS-WITH KNEEL ON BOTH KNEES INCLUDES-ALL MOTIONS NECESSARY TO GET BOARD, PLACE TO MORTAR, AND MOVE BOARD SIDEWAYS TO SMOOTH MIX, AND ASIDE BOARD ENDS-WITH ARISE
NF	861	MAF	1338	MOHB001	475	BRICK(JAMB FIRE), TAP INTO POSITION ON OUTSIDE CORNER STARTS-WITH BRICK AND TROWEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE BRICK INTO POSITION; TAP END, SIDE, AND TOP OF BRICK WITH TROWEL; CHECK ALIGNMENT, TAP BRICK AS NECESSARY AND RECHECK ALIGNMENT ENDS-WITH TROWEL IN HAND CONDITIONS-APPLICABLE TO REPAIR WORK ONLY

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	861	MAF	1512	M0H8T02	673	BRICK,TAP INTO POSITION FOR TIE-IN STARTS-WITH BRICK IN ONE HAND, HAMMER IN OTHER HAND INCLUDES-ALL MOTIONS NECESSARY TO GET BRICK WITH BOTH HANDS(HAMMER PALMED);POSITION BRICK IN MORTAR;TAP END,SIDE,AND TOP OF BRICK TO SEAT;CHECK VISUALLY;TAP END,SIDE,AND TOP OF BRICK SECOND TIME;AND CHECK VISUALLY ENDS-WITH HAMMER IN HAND CONDITIONS-BRICK WEIGHS APPROXIMATELY 15 POUNDS.APPLICABLE TO REPAIR WORK ONLY
NF	861	MAF	1508	SOHB001	429	BAG(CEMENT), OBTAIN AND OPEN STARTS-WITH WALK TWO PACES TO CEMENT STORAGE INCLUDES-ALL MOTIONS TO BEND TO BAG OF CEMENT, PICK UP CEMENT, TURN, WALK TWO PACES TO MIXING LOCATION, SET CEMENT DOWN, ARISE, AND PULL TAB TO OPEN BAG ENDS-WITH ASIDE TAB
NF	861	MAF	1306/07	SOHB001	574	BACKING(PAPER), REMOVE FROM TILE FIELD, 13"X26" STARTS-WITH GET RAG OR SPONGE INCLUDES-ALL MOTIONS NECESSARY TO DIP RAG OR SPONGE IN CONTAINER OF WATER, SQUEEZE TO REMOVE EXCESS, WIPE FIELD OF TILE, ASIDE SPONGE, GET EDGE OF PAPER BACKING, PULL PAPER OFF, SWEEP DEBRIS WITH HAND, AND ASIDE DEBRIS ENDS-WITH RELEASE OF DEBRIS
NF	861	MAF	1408	SOHG001	333	GROUT,POUR AND WORK INTO CRACKS OF FLOOR TILE, PER SQUARE FOOT STARTS-WITH REACH FOR PAIL OF GROUT INCLUDES-ALL MOTIONS NECESSARY TO MOVE PAIL INTO POSITION, INVERT, POUR GROUT OVER TILE, SET PAIL ASIDE, GET BRUSH, BRUSH GROUT, AND ASIDE BRUSH ENDS-WITH RELEASE OF BRUSH CONDITIONS-PAIL OF GROUT WEIGHS TO 10 POUNDS
NF	861	MAF	1486	SOHTP01	417	TILE,POSITION AND LEVEL TO ADJOINING TILE STARTS-WITH REACH TO TILE INCLUDES-ALL MOTIONS NECESSARY TO GET TILE, POSITION, GET BLOCK, PLACE ON TILE, TAP WITH PALM, REMOVE BLOCK, INSPECT VISUALLY, MOVE BLOCK TO TILE, TAP WITH PALM, REMOVE BLOCK, INSPECT, AND ASIDE BLOCK ENDS-WITH RELEASE OF BLOCK CONDITIONS-APPLICABLE TO REPLACEMENT OF TILE
NF	861	MAF	1327	MTLB801	331	BRICK,BREAK WITH TROWEL TO FIT STARTS-WITH TURN TO POLE OF BRICKS INCLUDES-ALL MOTIONS NECESSARY TO BEND, PICK UP BRICK, ARISE, TURN TO WALL, POSITION BRICK TO MEASURE, MARK BRICK WITH TROWEL, MOVE BRICK TO FRONT OF BODY, STRIKE WITH TROWEL TO BREAK, AND MOVE BRICK TO WALL TO CHECK FIT ENDS-WITH BRICK IN HAND
NF	861	MAF	1465	MTLBC01	660	BAG,CUT,CEMENT OR SIMILAR USING TROWEL STARTS-WITH BEND TO BAG OF CEMENT INCLUDES-ALL MOTIONS NECESSARY TO PICK UP BAG OF CEMENT, LIFT TO POSITION, GET TROWEL, STRIKE BAG TO CUT IN HALF, LIFT BAG TO FOLD, AND CUT REMAINDER OF BAG WITH TROWEL TO SEPARATE HALVES ENDS-WITH ASIDE TROWEL AND ARISE
NF	861	MAF	1309	MTLBS01	357	BED(MORTAR SETTING),SCREED,PER TWO SQUARE FEET STARTS-WITH SCREED IN HAND INCLUDES-ALL MOTIONS NECESSARY TO SCREED TWO SQUARE FEET OF MORTAR SETTING BED ENDS-WITH SCREED IN HAND

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DW/MSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	861	MAF	1510	MTLCB01	190	BRICK,CHIP OUT WITH CHISEL AND HAMMER,PER CUBIC INCH STARTS=WITH CHISEL AND HAMMER IN HAND INCLUDES=ALL MOTIONS NECESSARY TO MOVE CHISEL TO BRICK,MOVE HAMMER TO CHISEL,AND CHIP OUT ONE CUBIC INCH OF BRICK(SIX HAMMER BLOWS) ENDS=WITH CHISEL AND HAMMER IN HAND CONDITIONS=NO TIME ALLOWED FOR REPOSITIONING CHISEL
NF	861	MAF	1426	MTLJC01	246	JOINT(MORTAR),CUT OFF,BOTTOM AND ONE END,THREE BRICKS,WITH TROWEL STARTS=WITH TROWEL IN HAND INCLUDES=ALL MOTIONS NECESSARY TO CUT OFF ONE HORIZONTAL JOINT(THREE BRICKS LONG),SHAKE MORTAR FROM TROWEL TO MORTAR PAN,CUT OFF THREE VERTICAL JOINTS(ONE BRICK HIGH),AND SHAKE MORTAR INTO PAN ENDS=WITH TROWEL IN HAND
NF	861	MAF	1427	MTLJC02	117	JOINT(MORTAR),CUT OFF,BOTTOM AND ONE END,ONE BRICK,WITH TROWEL STARTS=WITH TROWEL IN HAND INCLUDES=ALL MOTIONS NECESSARY TO CUT OFF ONE HORIZONTAL AND ONE VERTICAL JOINT(ONE BRICK ONLY) AND SHAKE MORTAR FROM TROWEL INTO MORTAR PAN ENDS=WITH TROWEL IN HAND
NF	861	MAF	1429	MTLJP01	208	JOINT(MORTAR),POINT UP HORIZONTAL AND VERTICAL 8"X16" BLOCK STARTS=WITH POINTING TOOL IN HAND INCLUDES=ALL MOTIONS NECESSARY TO POINT UP ONE VERTICAL AND ONE HORIZONTAL JOINT OF ONE BLOCK ENDS=WITH TOOL IN HAND
NF	861	MAF	1429	MTLJS01	195	JOINT(MORTAR),STRIKE,VERTICAL AND HORIZONTAL, ONE BLOCK,WITH TROWEL STARTS=WITH TROWEL IN HAND INCLUDES=ALL MOTIONS NECESSARY TO MOVE TROWEL TO VERTICAL JOINT,STRIKE JOINT,SHAKE MORTAR FROM TROWEL,STRIKE HORIZONTAL JOINT,AND SHAKE MORTAR FROM TROWEL ENDS=WITH TROWEL IN HAND
NF	861	MAF	1492	MTLTF01	132	TROWEL,FILL WITH MORTAR STARTS=WITH TROWEL IN HAND INCLUDES=ALL MOTIONS NECESSARY TO TURN AND BEND TO MORTAR PAN,DIP TROWEL IN MORTAR,LIFT LOADED TROWEL,ARISE,AND TURN TO WORK ENDS=WITH TROWEL FILLED WITH MORTAR IN HAND
NF	862	MAF	3320	SEMP01	252	TOOL(REAMING),POSITION AND RETURN,TOLEDO 999 PIPE MACHINE OR SIMILAR STARTS=WITH REACH TO REAMER INCLUDES=ALL MOTIONS NECESSARY TO SWING REAMER DOWN TO CUTTING POSITION,MOVE CARRIAGE TO BRING REAMER TO PIPE END,MOVE REAMER INTO PIPE,MOVE CARRIAGE AWAY,AND RAISE REAMER ENDS=WITH RELEASE OF REAMER CONDITIONS=DOES NOT INCLUDE TIME FOR REAMING
NF	862	MAF	602	MNFSIXX VARIABLE	90	STAPLE,INSTALL IN PIPE COVER STARTS=WITH REACH TO PIPE COVER,STAPLER IN HAND INCLUDES=ALL MOTIONS NECESSARY TO POSITION COVER AND INSTALL STAPLE ENDS=WITH STAPLE INSTALLED,STAPLER IN HAND CASE 01 FIRST STAPLE 02 EACH ADDITIONAL STAPLE(POSITIONING OF COVER NOT REQUIRED)
					43	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	862	MAF	3733	MOHCGXX VARIABLE		COVER(PIPE),GET AND POSITION ON PIPE,LENGTH OF COVER=THREE FEET STARTS=WITH GET COVER INCLUDES=ALL MOTIONS NECESSARY TO OPEN COVER, SLIDE OVER PIPE,AND POSITION ENDS=WITH RELEASE OF COVER CASE 01 SMALL PIPE,TO TWO INCHES DIAMETER 02 MEDIUM PIPE,TWO-SIX INCHES DIAMETER 03 LARGE PIPE,GREATER THAN SIX INCHES DIAMETER
NF	862	MAF	556	MOHC001	288	CLOTH,OBTAIN FRGM ROLL STARTS=WITH REACH TO CLOTH ON ROLL INCLUDES=ALL MOTIONS NECESSARY TO UNROLL TO 16 INCHES OF CLOTH,GET KNIFE,SLIT CLOTH,ASIDE KNIFE,AND TEAR CLOTH TO SEPARATE FROM ROLL ENDS=WITH RELEASE OF CLOTH CONDITIONS=CLOTH IS 36 INCHES WIDE.APPLICABLE TO OBTAINING MUSLIN OR SIMILAR FOR WRAPPING PIPES AND FITTINGS
NF	862	MAF	557	MOHCS01	134	CLOTH,SMOOTH AFTER WRAPPING AROUND PIPE FITTING STARTS=WITH REACH TO CLOTH INCLUDES=ALL MOTIONS NECESSARY TO STRAIGHTEN AND SMOOTH CLOTH WRAPPING WITH HANDS ENDS=WITH RELEASE OF CLOTH CONDITIONS=APPLICABLE TO SMOOTHING CLOTH WRAPPED AROUND FITTING FOR INSULATION
NF	862	MAF	654	MOHF001	310	FITTING,WRAP WITH WIRE(CHICKEN WIRE OR SIMILAR) STARTS=WITH REACH TO WIRE INCLUDES=ALL MOTIONS NECESSARY TO WRAP WIRE AROUND PIPE FITTING ENDS=WITH RELEASE OF WIRE
NF	862	MAF	3738	MOHGI01	97	GASKET,INSERT BETWEEN FLANGE JOINTS TO TWO-INCH INSIDE DIAMETER STARTS=WITH REACH TO GASKET INCLUDES=ALL MOTIONS NECESSARY TO GET GASKET, POSITION BETWEEN FLANGES,ALIGN GASKET TO HOLE, AND PRESS GASKET INTO PLACE ENDS=WITH RELEASE OF GASKET
NF	862	MAF	3309	MOHJA01	332	JOINT(FLANGE),ALIGN STARTS=WITH REACH TO FLANGE INCLUDES=ALL MOTIONS NECESSARY TO BRING FLANGE TOGETHER.ALIGN APPROXIMATELY,GET PIN, INSERT IN BOLT HOLE,ALIGN FLANGES,AND REMOVE PIN ENDS=WITH ASIDE PIN CONDITIONS=TIME FOR INSTALLATION OF BOLTS NOT INCLUDED.APPLICABLE TO PIPE TWO-SIX INCHES INSIDE DIAMETER.
NF	862	MAF	3310	MOHJA02	171	JOINT(FLANGE),ALIGN WITH PIN STARTS=WITH GET PIN INCLUDES=ALL MOTIONS NECESSARY TO INSERT PIN THROUGH BOLT HOLES IN TWO FLANGES TO BRING FLANGES INTO ALIGNMENT ENDS=WITH ASIDE PIN CONDITIONS=TIME FOR INSTALLATION OF BOLTS NOT INCLUDED
NF	862	MAF	542/3/4	MOHL001	823	LAMPWICK,OBTAIN AND WRAP ON THREADS OF PIPE STARTS=WITH REACH TO ROLL OF LAMPWICK INCLUDES=ALL MOTIONS NECESSARY TO GET ROLL OF LAMPWICK,UNROLL SIX-FOOT SECTION,BREAK SECTION FRGM ROLL,ASIDE ROLL,SEPARATE STRANDS OF LAMPWICK,AND WRAP STRAND ON THREADS OF PIPE ENDS=WITH RELEASE OF LAMPWICK

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE	SOURCE CODE	OWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	862	MAF	1682	MOHPP01	264	PIPE, POSITION IN THREADING MACHINE AND REMOVE, TO FOUR-FOOT LENGTH STARTS-WITH PIPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE END OF PIPE TO CHUCK, POSITION,MOVE PIPE INTO CHUCK, TURN,STEP TO OTHER SIDE OF CHUCK,PULL PIPE END THROUGH CHUCK,AND POSITION PIPE IN CHUCK;AND SIDESTEP TO END OF MACHINE,GET PIPE,AND SLIDE FROM CHUCK ENDS-WITH PIPE IN HAND CONDITIONS-APPLICABLE TO 1/4"-2" INSIDE DIAMETER PIPE.MACHINE TIME NOT INCLUDED.
NF	862	MAF	1684	MOHPP02	442	PIPE, POSITION IN THREADING MACHINE AND REMOVE, 4=20 FEET IN LENGTH STARTS-WITH PIPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE END OF PIPE TO V-ROLLER,POSITION ON ROLLER,SIDESTEP TO CHUCK,MOVE END OF PIPE TO CHUCK,TURN,WALK TO OTHER SIDE OF CHUCK,AND PULL END OF PIPE THRGU CHUCK;AND TURN,WALK TO REAR OF MACHINE,GET PIPE,AND REMOVE FROM CHUCK ENDS-WITH PIPE IN HAND CONDITIONS APPLICABLE TO 1/4"-2" INSIDE DIAMETER PIPE.MACHINE TIME NOT INCLUDED
NF	862	MAF	3313	MOHPP03	359	PIPE, POSITION IN THREADING MACHINE CHUCK AND REMOVE, TO FOUR FOOT LENGTH STARTS-WITH PIPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE PIPE TO CHUCK WHILE WALKING TWO PACES,POSITION END OF PIPE TO CHUCK,AND PUSH PIPE THROUGH CHUCK TO CARRIAGE CYLINDER;AND TURN AND WALK TO END OF MACHINE,AND SLIDE PIPE FROM MACHINE ENDS-WITH PIPE IN HANDS CONDITIONS-APPLICABLE TO PIPE FOUR TO SIX INCHES DIAMETER LOADED IN HEAVY DUTY PIPE MACHINE.NO TIME INCLUDED FOR POSITIONING OR SECURING PIPE IN MACHINE.
NF	862	MAF	599/600	MOHSA01	1757	SNAKE,ATTACH TO AND REMOVE FROM PIPE, PREPATORY TO LEAD POUR STARTS-WITH REACH TO SNAKE INCLUDES-ALL MOTIONS NECESSARY TO GET SNAKE AND WRAP AROUND PIPE,SECURE SNAKE WITH CLAMP,GET YARN AND POSITION TO PIPE AND CLAMP, PUSH SNAKE AGAINST PIPE,GET HAMMER,POUND SNAKE TO ALIGN SNAKE,PLACE HAMMER ASIDE,INSPECT JOINT, REMOVE CLAMP, REMOVE SNAKE, ASIDE SNAKE,AND INSPECT JOINT ENDS-WITH COMPLETION OF INSPECTION
NF	862	MAF	601	MOHSP01	331	STAND(PIPE), POSITION UNDER PIPE STARTS-WITH REACH TO PIPE BY FIRST OPERATOR INCLUDES-ALL MOTIONS NECESSARY FOR FIRST OPERATOR TO LIFT PIPE WHILE SECOND OPERATOR REACHES TO PIPE STAND,MOVES STAND TWO PACES AND POSITION UNDER PIPE,AND FIRST OPERATOR TO LOWER PIPE TO STAND ENDS-WITH PIPE POSITIONED ON STAND CONDITION-TIME VALUE IS TOTAL FOR TWO OPERATORS
NF	862	MAF	626	MOHTB01	167	TUBING,BEND TO MATCH FITTING STARTS-WITH REACH TO TUBE INCLUDES-ALL MOTIONS NECESSARY TO APPLY PRESSURE,BEND TUBING TO ALIGN TO FITTING,AND VISUALLY CHECK RESULTS ENDS-WITH TUBING ALIGNED TO FITTING CONDITIONS-APPLICABLE TO COPPER TUBING 1/4=3 INCHES DIAMETER

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	862	MAF	636	MOHTU01	430	TUBING,UNROLL FROM COIL STARTS-WITH REACH TO ROLL OF TUBING INCLUDES-ALL MOTIONS NECESSARY TO UNROLL AND STRAIGHTEN THREE FEET OF TUBING FROM ROLL ENDS-WITH TUBING UNROLLED CONDITIONS-APPLICABLE TO COPPER TUBING 1/4-3 INCHES IN DIAMETER
NF	862	MAF	3440	MSUDP01	253	DIE(THREADING),POSITION TO PIPE AND RETRACT, TOLEDO MODEL 999 OR SIMILAR PIPE MACHINE STARTS-WITH REACH TO CARRIAGE INCLUDES-ALL MOTIONS NECESSARY TO MOVE CARRIAGE 24 INCHES TO END OF PIPE AND POSITION PIPE TO DIE FOR THREADING;AND OPEN DIE AND RETRACT CARRIAGE ENDS-WITH RELEASE OF CARRIAGE
NF	862	MAF	3432	MSUSA01	235	SPEED,ADJUST ON HEAVY DUTY PIPE MACHINE,THREE LEVERS STARTS-WITH TURN FROM MACHINE INCLUDES-ALL MOTIONS NECESSARY TO WALK ONE PACE TO SPEED LEVERS,CHECK SPEED CHART,MOVE EACH OF THREE LEVERS TO ADJUST SPEED,AND TURN FROM LEVERS ENDS-WITH WALK ONE PACE TO MACHINE
NF	862	MAF	3433	MSUSC01	133	SIZE(DIE),CHANGE ON HEAVY DUTY PIPE MACHINE STARTS-WITH LOOK TO MARK ON MACHINE INCLUDES-ALL MOTIONS NECESSARY TO GET LEVER AND POSITION TO CORRECT SETTING ENDS-WITH RELEASE LEVER
NF	862	MAF	3434	MSUWT01	418	WHEEL,TIGHTEN OR LOOSEN TO ADJUST REAR GUIDE CLAMPS,HEAVY DUTY PIPE MACHINE STARTS-WITH WALK FOUR PACES TO REAR OF MACHINE INCLUDES-ALL MOTIONS NECESSARY TO SIDESTEP TO WHEEL,TURN WHEEL TO TIGHTEN OR LOOSEN,AND SIDESTEP FROM WHEEL ENDS-WITH WALK FOUR PACES TO OPERATING POSITION CONDITIONS-RESISTANCE TO TURNING WHEEL UP TO 60 POUNDS ENW
NF	862	MAF	2570/71	SSUD0101	500	DIE(THREADING),INSTALL AND REMOVE,PIPE THREADING MACHINE STARTS-WITH BEND TO STORAGE SHELF UNDER MACHINE INCLUDES-ALL MOTIONS NECESSARY TO IDENTIFY THE DESIRED DIE,REMOVE FROM SLOTTED SHELF,ARISE, POSITION DIE ON SPUDS,AND CLOSE LEVER TO SECURE DIE;AND OPEN LEVER,REMOVE DIE,BEND,AND PLACE DIE IN SLOT ON SHELF ENDS-WITH ARISE FROM BEND
NF	862	MAF	576	MTFPP01	194	PIPE,POSITION AND ENGAGE THREADS(PIPE SUSPENDED ON HOIST) STARTS-WITH REACH TO END OF PIPE INCLUDES-ALL MOTIONS NECESSARY TO MOVE END OF PIPE TO FITTING,POSITION,GET PIPE WITH BOTH HANDS,AND TURN PIPE TO ENGAGE THREADS ENDS-WITH RELEASE OF PIPE
NF	862	MAF	634	MTFTA01	270	TUBING,ASSEMBLE TO THREADED FITTINGS(BOTH ENDS OF TUBING) STARTS-WITH REACH TO TUBE INCLUDES-ALL MOTIONS NECESSARY TO PICK UP TUBE,MOVE ONE END TO FITTING,HOLD,GET NUT AND ENGAGE ON THREADS,GET OTHER END OF TUBE,MOVE TO FITTING,AND ENGAGE NUT ON THREADS ENDS-WITH RELEASE OF TUBE CONDITIONS-DOES NOT INCLUDE TIME TO TURN NUT DOWN OR TO TIGHTEN NUT

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY SOURCE CODE	DMWSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	862	MAF	611	MTLCCXX VARIABLE	<p>COVER(PIPE),CUT WITH HACK SAW STARTS-WITH ONE HAND ON PIPE COVER,SAW IN OTHER HAND POSITIONED FOR CUTTING INCLUDES-ALL MOTIONS NECESSARY TO SAW THROUGH PIPE COVER AND ASIDE SCRAP ENDS-WITH RELEASE OF SCRAP</p> <p>991 CASE 01 PIPE COVER FOR PIPE DIAMETER TWO INCHES OR LESS</p> <p>1235 02 PIPE COVER FOR PIPE DIAMETER TWO-SIX INCHES</p> <p>1540 03 PIPE COVER FOR PIPE DIAMETER GREATER THAN SIX INCHES</p>
NF	862	MAF	3268	MTLDPO1	<p>DIE,BACK OFF THREADING TOOL,HAND-HELD PIPE DIE STARTS-WITH MOVE HANDLE FORWARD INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE HANDLE FORWARD 10 TIMES,SET RATCHET 10 TIMES AND MOVE HANDLE BACK 10 TIMES ENDS-WITH MOVE HANDLE BACK CONDITIONS-RATCHET IN REVERSE-MATERIAL IN VISE AND HANDLE MOVED 36 INCHES EACH MOVE</p>
AF	862	MAA	104	MTLDPO1	<p>DIE,POSITION TO PIPE AND START FIRST THREAD,HAND-HELD PIPE DIE STARTS-WITH CUTTING TOOL IN HAND AND PIPE IN VISE INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION TOOL TO PIPE,SEAT TOOL ON PIPE,APPLY PRESSURE AND MOVE HANDLE FORWARD,SET RATCHET,MOVE HANDLE WITH 30 POUNDS RESISTANCE ENDS-WITH MOVE HANDLE</p>
NF	862	MAF	536/537	MTLJTXX VARIABLE	<p>JOINT(FLANGE),TIGHTEN OR LOOSEN,PRELIMINARY STARTS-WITH POSITION WRENCH ON FLANGE INCLUDES-ALL MOTIONS NECESSARY TO POSITION PINS IN HOLES IN FLANGE,TIGHTEN OR LOOSEN,MOVE WRENCH FROM HOLES,AND MOVE WRENCH BACK FOR NEXT TURN ENDS-WITH WRENCH IN HAND</p> <p>673 CASE 01 PIN WRENCH WITH DOUBLE PIN (APPROXIMATELY 4 REVOLUTIONS)</p> <p>998 02 FACE TYPE SPANNER WRENCH (APPROXIMATELY 3 REVOLUTIONS)</p>
NF	862	MAF	571	MTLPCO1	<p>PIPE,CUT WITH PIPE CUTTER STARTS-WITH CUTTER POSITIONED ON PIPE INCLUDES-ALL MOTIONS NECESSARY TO MAKE 18 REVOLUTIONS WITH CUTTER TO CUT PIPE ENDS-WITH PIPE SEPARATED</p>
NF	862	MAF	627	MTLTBXX VARIABLE	<p>TUBING,BEND WITH TUBING BENDER STARTS-WITH GET BENDING DEVICE INCLUDES-ALL MOTIONS NECESSARY TO POSITION DEVICE ON TUBING,MAKE BEND TO 90 DEGREES,AND REMOVE DEVICE ENDS-WITH ASIDE BENDING DEVICE CONDITIONS-APPLICABLE TO COPPER TUBING 1/4-3 INCHES OUTSIDE DIAMETER</p> <p>405 CASE 01 BEND TUBE WITH BENDING SPRING</p> <p>498 02 BEND TUBE WITH TUBE BENDER</p>
NF	862	MAF	620/621	MTLTCXX VARTABLE	<p>TUBING,CUT OFF WITH HAND CUTTER STARTS-WITH REACH TO TUBING CUTTER INCLUDES-ALL MOTIONS NECESSARY TO POSITION CUTTER ON TUBE,ADJUST TO TUBE,CUT TUBE,BREAK OFF END OF TUBE,AND REMOVE CUTTER ENDS-WITH ASIDE CUTTER</p> <p>723 CASE 01 CUT TUBING TO 3/4 INCH DIAMETER</p> <p>1528 02 CUT TUBING 7/8 - 3 INCHES DIAMETER</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	862	MAF	632	STLTFO1	1284	TUBING,FLARE END STARTS-WITH GET FLARING BLOCK INCLUDES-ALL MOTIONS NECESSARY TO OPEN FLARING BLOCK,GET TUBE,PLACE FLARING BLOCK ON TUBE,TIGHTEN BLOCK(TWO NUTS),ATTACH FLARING TOOL,FLARE END OF TUBE,REMOVE FLARING TOOL,REMOVE BLOCK,AND ASIDE TUBE ENDS-WITH ASIDE FLARING BLOCK CONDITIONS-APPLICABLE TO COPPER TUBING 1/4-3 INCHES OUTSIDE DIAMETER
NF	862	MAF	633	STLTRO1	450	TUBING,REAM END WITH HAND REAMER STARTS-WITH GET REAMER INCLUDES-ALL MOTIONS NECESSARY TO POSITION REAMER TO TUBE,REAM TUBE,AND REMOVE REAMER ENDS-WITH ASIDE REAMER CONDITIONS-APPLICABLE TO COPPER TUBING 1/4-3 INCHES OUTSIDE DIAMETER
NF	862	MUF	878	MVSVO01	266	VISE(PIPE),OPEN OR CLOSE AND TIGHTEN STARTS-WITH REACH TO VISE INCLUDES-ALL MOTIONS NECESSARY TO PULL VISE HANDLE TO LOOSEN,SPIN HANDLE TO RELEASE VISE ROD,OPEN VISE ROD,AND OPEN UPPER JAW ENDS-WITH RELEASE OF UPPER JAW CONDITION-REVERSE MOTION PATTERN,SAME TIME, REQUIRED TO CLOSE VISE,NO TIME ALLOWED FOR MOVING OR POSITIONING PIPE
NF	863	MAF	3728	MOHSP01	208	SHINGLE(ASBESTOS),POSITION TO WALL STARTS-WITH SHINGLE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GRASP SHINGLE WITH BOTH HANDS,MOVE SHINGLE TO WALL,ALIGN,PUSH NEW SHINGLE UNDER SHINGLE ON WALL,GET HAMMER FROM HAMMER DOOR,AND TAP SHINGLE IN PLACE ENDS-WITH HAMMER IN HAND CONDITION-APPLICABLE TO THE REPLACEMENT OF BROKEN SHINGLES
NF	863	MAF	247	MOHSR01	485	SHINGLE(BROKEN),REMOVE FROM WALL,ASBESTOS SHINGLE STARTS-WITH HAMMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO USE HAMMER TO BREAK SHINGLE FOR REMOVAL AND REMOVE PIECES OF SHINGLE ENDS-WITH ASIDE PIECES OF SHINGLE
NF	863	MAF	243	MTLSC01	146	SHINGLE,CUT WITH SHINGLE CUTTER,ASBESTOS SHINGLE STARTS-WITH REACH TO CUTTER HANDLE INCLUDES-ALL MOTIONS NECESSARY TO RAISE HANDLE TO OPEN CUTTER,ALIGN SHINGLE TO CUTTER,AND CUT SHINGLE ENDS-WITH COMPLETION OF CUT CONDITION-DID NOT INCLUDE TIME TO GET AND ASIDE SHINGLE
NF	863	MAF	246	MTLSPXX VARIABLE	89	SHINGLE,PUNCH HOLE WITH MANUAL PUNCH,ASBESTOS SHINGLE STARTS-WITH SHINGLE IN ONE HAND AND OTHER HAND ON PUNCH HANDLE INCLUDES-ALL MOTIONS NECESSARY TO RAISE HANDLE,POSITION SHINGLE TO PUNCH,LOWER HANDLE TO PUNCH HOLE,RAISE HANDLE,REMOVE SHINGLE,AND LOWER HANDLE ENDS-WITH SHINGLE IN HAND CASE 01 FIRST HOLE 02 EACH ADDITIONAL HOLE
					49	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP-ATION	QUALITY SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	864	MAF	180	SJPSC01	2233 SANDPAPER,CHANGE CN DRUM SANDER STARTS-WITH GET WRENCH INCLUDES-ALL MOTIONS NECESSARY TO KNEEL,UNLOCK PAPER ON DRUM,REMOVE AND ASIDE USED PAPER,PICK UP NEW PAPER,PLACE ONE END OF PAPER IN DRUM SLOT,FOLD PAPER AND ROTATE DRUM,INSERT SECOND END OF PAPER IN SLOT,CREASE PAPER WITH WRENCH, INSERT FILLER,LOCK PAPER ON DRUM WITH WRENCH, AND ARISE ENDS-WITH ASIDE WRENCH CONDITIONS-TIME TO OBTAIN SANDPAPER NOT INCLUDED
NF	864	MAF	86	MOHFM01	162 FELT,MOVE ASIDE FOR ADHESIVE APPLICATION STARTS-WITH WALK THREE PACES TO END OF FELT INCLUDES-ALL MOTIONS NECESSARY TO STOOP,PICK UP END OF FELT,ARISE,AND WALK BACKWARD TO MOVE FELT ASIDE ENDS-WITH RELEASE OF FELT CONDITIONS-APPLICABLE TO INSTALLATION OF FELT ON WOOD FLOOR
NF	864	MAF	87	MOHFM02	263 FELT,MOVE INTO POSITION AFTER ADHESIVE APPLICATION STARTS-WITH STOOP TO PICK UP FELT INCLUDES-ALL MOTIONS NECESSARY TO PICK UP END OF FELT STRIP,WALK THREE PACES TO BRING FELT OVER ADHESIVE,KNEEL,POSITION FELT,AND PRESS FELT INTO PLACE ENDS-WITH ARISE FROM KNEELING POSITION CONDITION-TIME TO APPLY ADHESIVE NOT INCLUDED. APPLICABLE TO INSTALLATION OF FELT STRIP ON WOOD FLOOR
NF	864	MAF	81	MTPSL01	49 SANDER(DRUM),LOWER TU OR RAISE FROM FLOOR STARTS-WITH HANDS ON MACHINE HANDLE INCLUDES-ALL MOTIONS NECESSARY TO RELEASE MACHINE HANDLE,GET RELEASE LEVER,MOVE LEVER TO RELEASE DRUM,LOWER DRUM,RELEASE LEVER,AND REACH TO MACHINE HANDLE ENDS-WITH HANDS ON MACHINE HANDLE
NF	865	MAF	198	MNFFP01	265 POINT(GLAZIER'S),INSTALL,PER POINT STARTS-WITH REACH TO GLAZIER'S POINT INCLUDES-ALL MOTIONS NECESSARY TO GET POINT, POSITION POINT,GET CHISEL,PRESS POINT IN,ASIDE CHISEL,GET HAMMER,AND TAP POINT ENDS-WITH ASIDE HAMMER
NF	865	MAF	105	MOHGP01	98 GLASS,PLACE IN AND REMOVE FROM WINDOW FOR TRIAL INSTALLATION STARTS-WITH GLASS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO HOLD GLASS BY SIDES,POSITION BOTTOM CORNERS IN SASH,GRASP PANE NEAR TOP,MOVE PANE INTO SASH,AND REMOVE PANE FROM SASH ENDS-WITH PANE IN HAND CONDITION-APPLICABLE TO INSTALLATION OF WINDOW PANES 24X24=36X36 INCHES
NF	865	MAF	102	MOHGP02	138 GLASS,PLACE IN WINDOW FOR FINAL INSTALLATION STARTS-WITH GLASS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO HOLD GLASS PANE BY SIDES,PLACE BOTTOM CORNERS IN SASH, GRASP PANE NEAR TOP,MOVE PANE INTO SASH,AND PRESS PANE IN PUTTY ENDS-WITH RELEASE OF GLASS CONDITION-APPLICABLE TO INSTALLATION OF WINDOW PANES 24X24=36X36 INCHES

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY SOURCE	SOURCE CODE	DMWSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	866	MAF	3388	MNFFN01	68	FELT(ROOFING),NAIL WITH ROOFING NAILS,PER NAIL STARTS=WITH NAIL AND HAMMER IN HAND INCLUDES=ALL MOTIONS NECESSARY TO POSITION NAIL AND DRIVE WITH THREE HAMMER BLOWS ENDS=WITH HAMMER IN HAND
DNF	866	MAF	MOHAA01	MOHAA01	439	ASPHALT,APPLY FLOOD COAT FROM POUR CAN STARTS=WITH BEND TO FILLED POUR CAN INCLUDES=ALL MOTIONS NECESSARY TO PICK UP POUR CAN FILLED WITH ASPHALT,GET CAN WITH OTHER HAND,TLT CAN,AND POUR WITH SWEEPING MOTIONS WHILE SIDESTEPPING OVER AREA TO BE COATED ENDS=WITH ARISE FROM BEND,EMPTY CAN IN HAND CONDITIONS=FILLED CAN WEIGHS APPROXIMATELY 40 POUNDS.TIME TO WALK TO AND FROM ASPHALT CART NOT INCLUDED.
NF	866	MAF	41	MOHAE01	271	ASPHALT,EMPTY FROM BUCKET TO "LO-BOY" CART STARTS=WITH REACH TO BUCKET SUSPENDED ON HOIST INCLUDES=ALL MOTIONS NECESSARY TO PULL BUCKET TO CART,RAISE AND TILT BUCKET TO EMPTY IN CART,LOWER BUCKET,AND PLACE BUCKET IN POSITION TO BE LOWERED ENDS=WITH RELEASE OF BUCKET CONDITIONS=PROCESS TIME TO POUR ASPHALT NOT INCLUDED.BUCKET IS NOT DISCONNECTED FROM HOIST
DNF	866	MAF	241	MOHAMXX VARIABLE	410	ASPHALT,MOP CN SURFACE FROM WHEELED BUCKET STARTS=WITH GET MOP FROM BUCKET INCLUDES=ALL MOTIONS NECESSARY TO GET ASPHALT ON MOP,MOP ASPHALT ON ROOF,AND RETURN MOP TO BUCKET ENDS=WITH RELEASE OF MOP CASE 01 FIRST AREA 2.5 X 5 FEET 02 EACH ADDITIONAL AREA 2.5 X 5 FEET (REQUIRES MOVING WHEELED BUCKET TO NEXT AREA)
DNF	866	MAF	MOHBFO1	MOHBFO1	548	212 BUCKET,FILL WITH HOT ASPHALT FROM KETTLE STARTS=WITH BUCKET IN HAND INCLUDES=ALL MOTIONS NECESSARY TO BEND,PLACE BUCKET UNDER KETTLE SPOUT,OPEN SPOUT,CLOSE SPOUT,LIFT BUCKET FROM SPOUT,AND ARISE ENDS=WITH BUCKET OF ASPHALT IN HAND CONDITIONS=PROCESS TIME FOR BUCKET TO FILL NOT INCLUDED.FILLED BUCKET WEIGHS TO 40 POUNDS.
NF	866	MAF	35	MOHBRO1	198	BUCKET(EMPTY),REMOVE FROM HOIST AND ATTACH FULL BUCKET AT GROUND LEVEL STARTS=WITH FULL BUCKET IN HAND INCLUDES=ALL MOTIONS NECESSARY TO BEND,SET BUCKET BY HOIST,GET HOIST ROPE,OPEN HALYARD CLASP,MOVE CLASP OFF EMPTY BUCKET,PUT CLASP ON HANDLE OF FULL BUCKET,MOVE FULL BUCKET IN POSITION FOR HOISTING,AND MOVE EMPTY BUCKET ASIDE ENDS=WITH ARISE,EMPTY BUCKET IN HAND CONDITIONS=APPLICABLE TO HANDLING BUCKETS OF HOT ASPHALT OR SIMILAR WITH UP TO 45 POUNDS EW.
DNF	866	MAF	89	MTLFCXX VARIABLE	165	FELT(ROOFING),CUT WITH KNIFE,PER LINEAR FOOT STARTS=WITH WALK TWO PACES TO FELT TO BE CUT INCLUDES=ALL MOTIONS NECESSARY TO KNEEL BY FELT,MOVE KNIFE TO FELT AND CUT ONE LINEAR FOOT ENDS=WITH ARISE CONDITIONS=DOES NOT INCLUDE TIME TO GET UP ASIDE KNIFE CASE 01 FIRST LINEAR FOOT 02 EACH ADDITIONAL LINEAR FOOT(INCLUDES MOVE TO NEXT CUT AND CUT FELT)
					85	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY CODE	SOURCE ACTION	DWMSTOP CODE	TMU ELEMENT	OPERATION/ELEMENT DESCRIPTION
NF	866	MAF	110	MTLGS01	261	GRAVEL,SPREAD WITH SHOVEL,PER SHOVELFUL STARTS=WITH SHOVEL IN HANDS INCLUDES=ALL MOTIONS NECESSARY TO BEND,GET SHOVELFUL OF GRAVEL FROM PILE,ARISE,TURN,AND SWING SHOVEL EIGHT TIMES BACK AND FORTH TO THINLY SPREAD GRAVEL ENDS=WITH SHOVEL IN HANDS CONDITIONS=APPLICABLE TO SPREADING GRAVEL OVER FLOOR COAT OF ASPHALT OR SIMILAR