

State March

U. S. ARMY RESEARCH INSTITUTE FOR THE BEHAVIORAL AND SOCIAL SCIENCES

A Field Operating Agency under the Jurisdiction of the Deputy Chief of Staff for Personnel

	FRANKLIN A. HAMA
JOSEPH ZEIDNER Technical Director	Colonel, US Azmy Commander
rechilder Bilderer	

NOTICES

FINAL DISPOSITION: This Research Product may be destroyed when it is no longer needed. Please do not return it to the U.S. Army Research Institute for the Behavioral and Social Sciences.

NOTE: This Research Product is not to be construed as an official Department of the Army document in its present form.

	PAGE	READ INSTRUCTIONS
REPORT HUMBER	2. JOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
	$h = \Lambda + P(Q + Q)$	
Research Product 80-24b	AD-A1011 10	
. TITLE (and Subtitie)		5. TYPE OF REPORT & PERIOD COVERED
PROGRAMMING DESIGN GUIDE FOR COMPU	JTER	Final Report
IMPLEMENTATION OF JOB AID FOR SELE	CTING	January-October 1979
INSTRUCTIONAL SETTING		5. PERFORMING ORG. REPORT NUMBER
AUTHOR(a)		B. CONTRACT OR GRANT NUMBER(e)
Russel F Schulz William C Under	-b-111	
and Carol S Hargan		DAHC10-78-C-0010
and barbi b. hargan		DAIG19-70-C-0010
PERFORMING ORGANIZATION NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK
Human Resources Research Organizat	ion	AREA & WORK UNIT NUMBERS
300 North Washington Street		202637434794
Alexandria, Virginia 22314		
1. CONTROLLING OFFICE NAME AND ADDRESS		12. REPORT DATE
US Army Research Institute for the	Behavioral	December 1979
and Social Sciences		13. NUMBER OF PAGES
5001 Eisenhower Avenue, Alexandria	. Virginia 22333	146
4. MONITORING AGENCY NAME & ADDRESS(II dilleren	t from Controlling Office)	15. SECURITY CLASS. (of this report)
		UNCLASSIFIED
		154. DECLASSIFICATION/DOWNGRADING SCHEDULE
		I Report)
B. SUPPLEMENTARY NOTES		
8. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc	ally by Dr. Haro e W. Knerr.	ld F. O'Neil, Jr.,
8. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc XEY WORDS (Continue on reverse side if necessary en	ally by Dr. Haro e W. Knerr.	ld F. O'Neil, Jr.,
8. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc 9. KEY WORDS (Continue on reverse elde if necessary en	ally by Dr. Haro e W. Knerr. d identify by block number)	ld F. O'Neil, Jr.,
8. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc 9. KEY WORDS (Continue on reverse elde if necessary en ISD	ally by Dr. Haro e W. Knerr. d identity by block number) Programmi	ld F. O'Neil, Jr., ng Design Guide
8. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc D. KEY WORDS (Continue on reverse elde if necessary and ISD Instructional Systems Development	ally by Dr. Haro e W. Knerr. d identity by block number) Programmi Programmi	ld F. O'Neil, Jr., ng Design Guide ng Design Language
A. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc KEY WORDS (Continue on reverse side if necessary and ISD Instructional Systems Development Author Aids	ally by Dr. Haro e W. Knerr. d identity by block number) Programmi Programmi	ld F. O'Neil, Jr., ng Design Guide ng Design Language
B. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc KEY WORDS (Continue on reverse side if necessary and ISD Instructional Systems Development Author Aids Job Aids	ally by Dr. Haro e W. Knerr. d identity by block number) Programmi Programmi	ld F. O'Neil, Jr., ng Design Guide ng Design Language
A. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc KEY WORDS (Continue on reverse elde if necessary en ISD Instructional Systems Development Author Aids Job Aids ABSTRACT (Continue on reverse elde if necessary end The nurpose of the reverse black to be the	ally by Dr. Haro e W. Knerr. d identity by block number) Programmi Programmi d identity by block number)	ld F. O'Neil, Jr., ng Design Guide ng Design Language
6. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc A KEY WORDS (Continue on reverse side if necessary end ISD Instructional Systems Development Author Aids Job Aids ABSTRACT (Continue on reverse side if necessary end The purpose of the research was to computer implementation of a merice	ally by Dr. Haro e W. Knerr. d identity by block number) Programmi Programmi d identity by block number) o develop and eva	ld F. O'Neil, Jr., ng Design Guide ng Design Language
B. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc A KEY WORDS (Continue on reverse side if necessary end ISD Instructional Systems Development Author Aids Job Aids ABSTRACT (Continue on reverse side if necessary end The purpose of the research was to computer implementation of a manual Research Products 20-13 and 20-14	ally by Dr. Haro e W. Knerr. d identity by block number) Programmi Programmi d identity by block number) o develop and eva al Job Aid previo	ld F. O'Neil, Jr., ng Design Guide ng Design Language laute a guide for the usly developed. (ARI
B. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc A KEY WORDS (Continue on reverse elde II necessary en ISD Instructional Systems Development Author Aids Job Aids ABSTRACT (Continue on reverse elde II necessary end The purpose of the research was to computer implementation of a manual Research Products 80-13 and 80-14) urovided "how to do it suidence"	ally by Dr. Haro e W. Knerr. d identity by block number) Programmi Programmi d identity by block number) o develop and eva il Job Aid previo . The manual Job	ld F. O'Neil, Jr., ng Design Guide ng Design Language laute a guide for the usly developed. (ARI Aid of the prior research
B. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc KEY WORDS (Continue on reverse elde II necessary en ISD Instructional Systems Development Author Aids Job Aids ABSTRACT (Continue on reverse elde II necessary end The purpose of the research was to computer implementation of a manual Research Products 80-13 and 80-14) provided "how to do it guidance" f	ally by Dr. Haro e W. Knerr. d identity by block number) Programmi Programmi d identity by block number) o develop and eva al Job Aid previo . The manual Job for selected acti	ld F. O'Neil, Jr., ng Design Guide ng Design Language laute a guide for the usly developed. (ARI Aid of the prior research vities identified in the OC 350-30) The procent
B. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc KEY WORDS (Continue on reverse elde II necessary en ISD Instructional Systems Development Author Aids Job Aids ABSTRACT (Continue on reverse elde II necessary end The purpose of the research was to computer implementation of a manua Research Products 80-13 and 80-14) provided "how to do it guidance" f Instructional Systems Development	ally by Dr. Haro e W. Knerr. Programmi Programmi didentify by block number) o develop and eva al Job Aid previo . The manual Job for selected acti Model (ISD, TRAD	ld F. O'Neil, Jr., ng Design Guide ng Design Language laute a guide for the usly developed. (ARI Aid of the prior research vities identified in the OC 350-30). The present
B. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc KEY WORDS (Continue on reverse elde II necessary en ISD Instructional Systems Development Author Aids Job Aids ABSTRACT (Continue on reverse elde II necessary end The purpose of the research was to computer implementation of a manua Research Products 80-13 and 80-14) provided "how to do it guidance" f Instructional Systems Development document provides a Programming De	ally by Dr. Haro e W. Knerr. d identity by block number) Programmi Programmi d identity by block number) o develop and eva al Job Aid previo . The manual Job for selected acti Model (ISD, TRAD esign Guide which	ld F. O'Neil, Jr., ng Design Guide ng Design Language laute a guide for the usly developed. (ARI Aid of the prior research vities identified in the OC 350-30). The present enables computer programmer
B. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc KEY WORDS (Continue on reverse elde II necessary en ISD Instructional Systems Development Author Aids Job Aids ABSTRACT (Continue on reverse elde II necessary end The purpose of the research was to computer implementation of a manua Research Products 80-13 and 80-14) provided "how to do it guidance" f Instructional Systems Development document provides a Programming De to implement the manual Job Aid for	ally by Dr. Haro e W. Knerr. d identity by block number) Programmi Programmi d identity by block number) o develop and eva al Job Aid previo . The manual Job for selected acti Model (ISD, TRAD esign Guide which or Selecting Inst	ld F. O'Neil, Jr., ng Design Guide ng Design Language laute a guide for the usly developed. (ARI Aid of the prior research vities identified in the OC 350-30). The present enables computer programmer ructional Setting (ISD Block (ARI Research Products
B. SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc Dr. KEY WORDS (Continue on reverse elde II necessary en ISD Instructional Systems Development Author Aids Job Aids ABSTRACT (Continue on reverse elde II necessary end The purpose of the research was to computer implementation of a manua Research Products 80-13 and 80-14) provided "how to do it guidance" f Instructional Systems Development document provides a Programming De to implement the manual Job Aid fo I.5) on any computer system. Comp	ally by Dr. Haro e W. Knerr. d identity by block number) Programmi Programmi d identity by block number) o develop and eva al Job Aid previo The manual Job for selected acti Model (ISD, TRAD esign Guide which or Selecting Inst panion documents	ld F. O'Neil, Jr., ng Design Guide ng Design Language laute a guide for the usly developed. (ARI Aid of the prior research vities identified in the OC 350-30). The present enables computer programmer ructional Setting (ISD Block (ARI Research Products
A SUPPLEMENTARY NOTES This project was monitored technic Dr. Melissa Berkowitz and Dr. Bruc KEY WORDS (Continue on reverse elde if necessary en ISD Instructional Systems Development Author Aids Job Aids ABSTRACT (Continue on reverse elde if necessary en The purpose of the research was to computer implementation of a manual Research Products 80-13 and 80-14) provided "how to do it guidance" f Instructional Systems Development document provides a Programming De to implement the manual Joh Aid fo I.5) (in any computer system. Comp D JAN 73 1473 EDITION OF 1 NOV 65 IS OBSOL	ally by Dr. Haro e W. Knerr. d identity by block number) Programmi Programmi d identity by block number) o develop and eva al Job Aid previo . The manual Job for selected acti Model (ISD, TRAD esign Guide which or Selecting Inst panion_documents	1d F. O'Neil, Jr., ng Design Guide ng Design Language laute a guide for the usly developed. (ARI Aid of the prior research vities identified in the OC 350-30). The present enables computer programmer ructional Setting (ISD Block (ARI Research Products NGLASSIFIED

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE(When Date Entered)

20. 80-24a and 80-24c) provide the developmental history of the Programming Design Guide and a supplemental handbook for instructional developers who will use the computer-based Job Aid.

11

SECURITY CLASSIFICATION OF THIS PAGE(When Date Entered)

UNCLASSIFIED

The Computer-Based Instructional Systems Team of the US Army Research Institute for the Behavioral and Social Sciences (ARI) performs research and development in the area of educational technology that applies to military training. Of interest are methods for training individuals to develop and utilize instructional courseware in reasonable time, at acceptable cost.

This Research Product is one cf a series which have been designed to support the implementation of the Instructional Systems Development Model (ISD, TRADOC Pamphlet 350-30). The ISD Model is a step-by-step procedure for the analysis, design, development, implementation, and control of military course materials. A previous effort produced manual Job Aids which are paper and pencil documents designed to provide "how to do it" guidance for the ISD Model. This document is part of a series of three developed to support the delivery of the manual Job Aids by computer. To accomplish this research, ARI's resources were augmented by contract DAHC19-78-C-0010 with the Human Resources Research Organization (HumRRO).

The contributions of personnel from ARI's Manpower and Educational System's Technical Area as well as those of Mr. Charles F. Marshall and Mr. Joseph P. Severo, Research Facilities Support Group are acknowledged. Mr. Antonio J. Alameda, HumRRO also cortributed to this research effort.

The entire research project is responsive to the requirements of Army Project 20263743A794, FY80 Work Program.

Technical Director

Accession For				
NTIS	GRANI X			
DTIC TAB				
Unann	Unannounced			
Justi	Pication			
By Distr	ibution/			
Avai	lability Codes			
	Avail and/or			
Dist	Special			
10				
	1 1			

DTIC ELECTE JAN 4 1982 D PROGRAMMING DESIGN GUIDE FOR COMPUTER IMPLEMENTATION OF JOB AID FOR SELECTING INSTRUCTIONAL SETTING

BRIEF

Requirement:

The purpose was to develop a language to translate an existing paper and pencil Jcb Aid onto a computerized delivery system. The Job Aid is one of a series developed previously to support users of the Instructional Systems Development Model (ISD).

Procedure:

A Programming Design Language (PDL) was created to describe the computer functions (e.g., computer/user interactions, storage/retrieval of data, program branching, program management, and calculations) required by the Job Aids (ARI Research Products 80-13 through 80-18). The PDL was designed to communicate to the computer programmer in a language independent fashion so that the on-line or computer version of the Job Aid could be delivered by any computer.

Utilization:

ĺ.

The Programming Design Guide may be used by computer programmers who are tasked with programming the manual Job Aids.

TABLE OF CONTENTS

Se	ction	
Ι	INTRODUCTION	
II	PROGRAM DESIGN LANGUAGE	
111	PROGRAMMING FLOWCHART	
IV	VARIABLES USED IN THE PROGRAMMING DESIGN GUIDE 41	
V	SETUP MATERIAL	
VI	PROGRAMMING SPECIFICATIONS	

vii

ومحمد والأثارية والمعاقل والمعتقر والارام ومحمد والمرا

Page

Section I

INTRODUCTION

Job Aids¹ are being developed for the US Army Research Institute for the Behavioral and Social Sciences under contract DAHC19-78-C-0010. The Job Aids are intended to be stand alone, step-by-step procedural guides which are equally useful to individuals at all experience levels of the instructional systems development process.

This Programming Design Guide (PDG) was developed to permit the offline Job Aid for Select Instructional Setting to be available in an inquirytype, on-line version. It is intended to provide computer programmers with all of the guidance necessary for them to implement on their computer system the off-line job aid. The resulting on-line program will be used by instructional development personnel to assist in the selection of the appropriate instructional setting for each critical task within an MOS.

Inasmuch as the PDG will be used as a guide for programming on a number of computer systems which employ different programming languages, the Guide is written in a Program Design Language (PDL) format rather than in any specific programming language. The Program Design Language is a pseudocomputer language which is used to describe the design specification for an interactive computer program to assist in the selection of instructional settings.

- ¹Schulz, R.E. and Farrell, J.R. Job aids: Descriptive authoring flowcharts for phase I-analyze of the Instructional Systems Development model (Research Product 80-13). Alexandria, VA: US Army Research Institute, May 1980.
- Schulz, R.E. and Farrell, J.R. Job aid manuals for phase I-analyze of the Instructional Systems Development model (Research Product 80-14). Alexandria, VA: US Army Research Institute, May 1980.
- Schulz, R.E. and Farrell, J.R. Job aids: Descriptive authoring flowcharts for phase II-design of Instructional Systems Development model (Research Product 80-15). Alexandria, VA: US Army Research Institute, May 1980.
- Schulz, R.E. and Farrell, J.R. Job aid manuals for phase II-design of the Instructional Systems Development model (Research Product 80-16). Alexandria, VA: US Army Research Institute, May 1980.
- Schulz, R.E. and Farrell, J.R. Job aids: Descriptive authoring flowcharts for phase III-develop of the Instructional Systems Development model (Research Product 80-17). Alexandria, VA: US Army Research Institute, May 1980
- Schulz, R.E. and Farrell, J.R. Job aid manuals for phase III-develop of the Instructional Systems Development model (Research Product 80-18). Alexandria, VA: US Army Research Institute, May 1980.

It will be necessary for you to translate the Program Design Language in the Guide into the programming language (e.g., BASIC, FORTRAN, COBOL, etc.) used at your installation.

The PDG is organized into six sections as described below. Study each of these sections carefully before you begin programming.

SECTION I: Introduction

and the second second

- SECTION II: <u>Programming Design Language</u>. This section describes the commands used in the Guide and provides guidance and examples of how each is used.
- SECTION III: <u>Programming Flowchart</u>. The flowchart included in Section III may be useful to you as an overview of the programming requirements for the entire program.
- SECTION IV: Variables Used in the PDG. This section provides an alphabetical listing of all of the variables used in the program. Any variable can be renamed to better fit your programming language.
- SECTION V: <u>Setup Material</u>. In this section some variables are set to predetermined values and various strings and arrays are established.
- SECTION VI: Programming Specifications. Section VI is the heart of the PDG. It contains the labels, commands, tags and comments necessary for the programming of the Select Instructional Settings Job Aid.

In Section VI of this PDG reference is made to a document, Supplemental Guide: Sources of Information for On-line Implementation of ISD I.5 Select Instructional Setting.¹ The Supplemental Guide should be made available to instructional development personnel who use the on-line version of the Job Aid.

¹Schulz, R.E. Supplemental Guide: Sources of Information for Online Implementation of ISD I.5 Select Instructional Setting (ARI Research Product 80-24c), Alexandria, VA: US Army Research Institute for the Benavioral and Social Sciences, in press.

Section II

PROGRAM DESIGN LANGUAGE

The Program Design Language (PDL) is a pseudo-computer language which may be used to describe the design specifications for certain classes of interactive computer programs. At present there are the following commands which are described on the pages indicated.

Commands	Page
ACCEPT	24
\$ACCEPT	25
ARRAY	8
CALL	16
CLEAR	21
DECIDE	26
GOTO	13
ITERATE	17
NEXT	16
ON	14
RETURN	16
SET	10
\$SET	11
SHOW	19
SHOWB	20
STOP	15
\$STRING	9
WAIT	23

PDL SYNTAX

The PDL is a statement-oriented language. In general, a statement consists of four fields: label, command, tag and comment. The label and comment fields are optional. Comments are delimited by a string of two or more asterisks. Examples of valid PDL statements are:

LBL SHOW WHAT IS YOUR NAME? ****WRITE ON USER'S TERMINAL #ACCEPT \$NAME, 40 ****ALLOW UP TO 40 CHARACTERS SHOW YOUR NAME IS /\$NAME/ STOP

Implementation of Specific Text

Since computer systems differ among installations, the PDL includes the ability to specify where a PDL phrase should be consistently replaced with a phrase appropriate for a specific computer system. The PDL phrase is enclosed in a pair of # signs.

Example

SHOW #PRESS NEXT# TO CONTINUE

#PRESS NEXT# means that the user signals readiness to proceed by pressing a function key or typing a command.

In one implementation, this message might be "PRESS CARRIAGE RETURN to continue."

For another system, the message might say: "HIT CARRIAGE RETURN to continue."

Naming Conventions

Because the PDL is a pseudo-computer language, there are no restrictions on labels and variable names; their length is unlimited. By convention, all commands and variable names associated with alphanumeric characters are preceded by a \$. This lack of restrictions should promote the use of meaningful names for labels and variables.

Example

\$SET \$MYNAME ≈ "FRANCOIS"

-BIAN SAL

Array Declarations and Data Manipulations

There are two basic data types in the PDL--numeric integers and alphanumeric strings. Instances of either data type may exist as constants, single variables or arrays. There are four commands used for array declaration and data manipulation: ARRAY, \$STRING, SET, and \$SET. ARRAY arrayname (dimensions)

The ARRAY command specifies the existence of an array of integer values.

E.tamples

ii aataa

ARRAY	ISR-Ovestion (14,24)	****specifies an array of 14 rows
		with 24 columns per row
ARRAY	XYZ (10)	****specifies a vector of 10 elements

and the state of the

an an an Earlin Shine an an

\$STRING \$stringname , stringsize
\$STRING \$stringname (dimensions) , stringsize

The \$STRING command specifies the existence of an alphanumeric character string or array of character strings. The "stringsize" is the maximum number of characters contained in the string or element of a string array.

Examples

h

1

;

:

:

\$STRING	\$NAME , 3	30		<pre>***specifies a string of up to 30 characters</pre>
\$STRING	\$TASKS(24)	,	40	****specifies a set of 24 strings of 40 characters each



The SET command allows simple arithmetic operations to be performed. Variable references may also be references to array elements.

Examples

Low Strategies

SET X = 12SET X = Y + 3SET Y = 3 * 2SET Tatle(1) = TBL(1,3) + TBL(4,2) SET Count = TABLE(1)

\$SET \$string = "alphanumeric constant" \$SET \$string = \$string2

The \$SET command is used to place a value in a string variable. Variable references may also be references to string array elements.

When the \$SET command is used with strings of unequal length, the string on the right, when assigned to the string on the left, is either padded with blanks or truncated in order to correspond to the length of the string on the left.

Examples

\$SET \$NAME = "HARRY" \$SET \$NAME2 = \$NAME \$SET \$FIRSTNAME = \$NAMES(1)

Sequence Control

Ì

There are eight PDL commands that are used to control the flow of the program:

ITERATE and NEXT for loop control,

GOTO, GOTO. . . IF, ON. . . GO TO . . . CALL . . . RETURN for control of unconditional and conditional program branching, and

and the second se

STOP to halt processing.

A STATE OF STATE

GOTO label GOTO label IF condition

The GOTO command transfers control to the statement having the corresponding label. The second form of the command transfers control only if the specified condition is met. A test condition is expressed as follows:



or

and the second sec

Examples

GO TO	BLOCK 12		
GO TO	BLOCK 12	IF COUNT = 19	
GO TO	BLOCK 12	IF COUNT > MAXCO	UNT
GO TO	BLOCK 12	IF \$NAME = "FRED"	
GO TO	BLOCK 12	IF \$NAME = \$NAME2	

. weiter the

ON varname COTO label, label, . . . , label

This command structure causes a conditional transfer of control according to the value of the specified variable. A value of one causes control to transfer to the first label. A value of two corresponds to the second label, and so forth. If the value of the given variable is less than one or greater than the number of labels, the next sequential statement is executed.

Example

.

1.211.28

ON X GOTO BLOCK3, BLOCK4, BLOCK5, BLOCK6

A State Balling

STOP

i

4

,

The STOP command terminates a PDL program.

CALL label

1.10

RETURN

The CALL command jumps program control to subroutine.

The RETURN command returns program control to command following the CALL statement.

us standing and an

ITERATE index, first value, last value [,increment]

The ITERATE command specifies the beginning of an iterative loop structure. The variable "index" is first set to the value "first value." Subsequent commands are processed in the normal manner, until a "NEXT index" command is encountered. The loop is then restarted with the variable "index" first having the value of "increment" added to it. The increment value defaults to one if unspecified. The loop terminates when the value of "index" becomes greater than "last value." Control then transfers to the next command after "NEXT index."

Examples

ITERATE I, 1, 10 NEXT I ITERATE J, 1, 9, 2 MEXT J NEXT J

17

-con the state of

Terminal Output

.

The PDL has three commands for displaying text to the user: SHOW, SHOWB, and CLEAR. Although the PDL makes no assumptions about the type of terminal available, many systems use CRT screens. For this reason, commands such as CLEAR and SHOWB are included in the PDL. For hardcopy terminals, appropriate spacing should be substituted in order to format the text.

and some do your at

SHOW text

SHOW (text label)

The SHOW command displays text at the user's terminal. The text to be displayed may either be contained in the command itself or be referred to by an indirect label. The values of variables may be imbedded in the body of a block of text by enclosing references to the variables in a pair of slashes.

Examples

SHOWB text

and the second se

SHOWB (text label)

The SHOWB command is the same as the SHOW command except that the text associated with the command B to be displayed on the "bottom" of the user's terminal, if possible. SHOWB is generally used to display references, footnotes, and so forth. The manner in which SHOWB is differentiated from SHOW will depend on terminal hardware considerations for any given computer system.

Example

SHOWB Guide reference page ___.

CLEAR

The CLEAR command indicates that the user's CRT screen should be blanked, if possible. For hardcopy continuous form terminals, the CLEAR command may generate several linefeed characters to indicate framing of the text.

Section William

Keyboard Input

E

The PDL assumes the existence of an alphanumeric keyboard for user input. There are four commands in the PDL for processing keyboard input: WAIT, ACCEPT, \$ACCEPT, and DECIDE. Any given user input may be a number, a string of characters, or one of the special functions, NEXT, BACK, or HELP. For example, in one implementation, the user presses "Carriage Return" for NEXT, types "B" or "BACK" followed by "Carriage Return" for BACK, and types "H" or "HELP" followed by "Carriage Return" for HELP. The user should be made aware of when HELP and BACK are available. If HELP or BACK are requested when unavailable the user should be made aware of the non-availability.

WAIT [backlabel] [helptext label] [,clear])]

The WAIT command specifies that user input is expected. The user has three options available to him in the general case: NEXT, BACK and HELP. "NEXT" causes the next command after the WAIT to be obeyed. "BACK" causes control to transfer to the command associated with "backlabel," if specified. "HELP" causes the text associated with "helptext label" to be printed at the user's terminal.

Examples

ł

WAIT
WAIT BLOCK7
WAIT BLOCK7, (advice text)
WAIT , (advice text)
WAIT BLOCK7, (advice text, CLEAR) ****clear the screen before
showing help text

ALCON CONTRACT

ACCEPT varname, lowbound, highbound [backlabel] [,(helptext label[,clear])]

The ACCEPT command specifies that a numeric input is expected from the user. The value must be between "lowbound" and "highbound." An error message is printed if the given value is out of range. The arguments "backlabel" and "helptext label" are used as documented for the WAIT command.

Examples

í

1

SHOW What percentage of soldiers perform this task? ACCEPT Perform-Percentage, 1, 100, Block 4 ACCEPT AGE, 1, 200,, (Hint)

.....

\$ACCEPT \$stringname , maximum length [,backlabel] [,(helptext label
 [,clear])]

The \$ACCEPT command is used to accept alphanumeric character input from the user. The string entered must be between zero and "maximum length" characters in length. The arguments "backlabel" and "helptext label" are used as documented for the WAIT command.

Examples

And The section of the second se

\$ACCEPT \$NAME, 30
\$ACCEPT \$MOS, 20,, (moshelp)
\$ACCEPT \$NAMES(1), MAXNAME

DECIDE yeslabe1 , nolabe1 [,backlabe1] [,(helptext label [,clear])]

The DECIDE command is used when a yes or no response is expected from the user. A response of yes or no causes control to transfer to the corresponding label. If neither response is made, a prompting message is given to the user. The arguments "backlabel" and "helptext label" are used as documented for the WAIT command.

Examples

DECIDE DOIT, SKIPIT, REVIEWIT, (ADVISEUSER) DECIDE OK, NO

-

Section III PROGRAMMING FLOWCHART

S. Alas Alas



Street Contraction

ال .

1



and the set of the set of the set

۹. ۲۰۰۰ ۲

29


ne ... total

[]

1

1

and the second second second

30





. .

:

32

and the second second

A CONTRACTOR OF

۰,

. Line Hereit



Go to Block 35

Yas



Section State



•

.

「「「「「「「」」」」

and the second

6 . . ·



geen

.

.

ويجرونك والمعادية

a mini li an a material material distriction an a via materialitation a



37



Ĩ

:

,

Ë : K

1

į

11

÷

÷





-

40

T.

- set and the

F•

Section IV

VARIABLES USED IN THE PROGRAMMING DESIGN GUIDE

This section of the Programming Design Guide provides an alphabetical listing of variables used in the program. Generally, the variable names are self-explanatory. However, where needed, an explanation of what the variable is used for is provided.

Keep in mind that these variable names are used only to communicate with programmers who are using the Programming Design Guide. Feel free to rename any variable.

DP	A numeric variable used to index the duty position array.	
DPNEW	A numeric variable used to count the number of duty positions during the modification process.	
\$ DUTY CODE	An array of alphanumeric variables used to define the duty positions.	
\$DUTYCODE2	A temporary array of alphanumeric variables used in the program when the user is modifying the duty position designations.	
DUTY CODE_MAXIMUM	A numeric variable which defines the maximum number of alphanumeric characters that can make up a duty position title.	
\$ESTIMATL	Temporary variable that stores yes/no indicating whether percentage performing task is an estimate or not.	
FIRST_TIME	Variable used to determine if the first unassigned task is being re-evaluated.	
FSETTING	An array of numeric variables used to store the <u>final</u> designations of instructional settings. The numbers stored will be a 1, 2, or 3.	
HP_CRITERION	Criterion value for percentage of soldiers who must perform a task before the task is identified as a "high performance task."	
\$INPUTLINE,100	An alphanumeric variable that is to store temporarily the user's input duty code designation. It is limited to 100 characters.	

Malan Sheka

41

S. Caller

An alphanumeric array of 3 variables each of which \$INSTR_SETTING (3,20) contains one of the instructional settings. \$INSTR-SETTING(1) = "Institution" \$INSTR-SETTING(2) = "S 0 J T" (supervised onthe-job training) \$INSTR-SETTING(3) = "Self-study" ISR % An array of numeric variables used to store the actual (as opposed to estimated) percentages of soldiers who perform given tasks. ISR %E An array of numeric variables used to store the estimated (as opposed to actual) percentages of soldiers who perform the given tasks. An array of numeric variables used to store which tasks ISR DUTY are performed by each duty position. An array of numeric variables used for recording the ISR_QUESTION responses to the 14 questions. MAXIMUM DUTY POSITIONS A numeric variable which defines the maximum number of duty positions that can be included in the program. A numeric variable which defines the maximum number MAXIMUM TASKS of tasks that can be included in the program. **\$MOSCODE** An alphanumeric variable used to store an MOS. May not be longer than 10 characters in length. NEW_S Variable used to hold the changed value of an instructional setting. NOCOUNT Counter of "NO" responses to a specific question. NUMBER OF TASKS A numeric variable in which the number of tasks in the MOS (for a skill level) is recorded. PERFORMS Indicates if task (yes/no) is performed in a specific duty position. Q Counter for keeping track of which questions are being examined. S Counter for keeping track of which instructional setting is being reviewed. An array of numeric variables used to store, by task, SETTING the initial designations of instructional settings. The numbers stored will be a 1, 2, or 3.

42

\$SETTING	Variable used for storing the specific instructional setting.
	1 = institution
	2 = SOJT (Supervised On-the-Job Training)
	3 = Self-study
SKILL	A numeric variable used to record the skill level of the MOS being treated. The numeric value is 1, 2, 3, or 4.
TASK	A numeric variable used to index the array of tasks.
\$TASKCODE	An alphanumeric string used to define a task title. The string cannot be longer than TASKCODE_MAXIMUM in length.
TASKCODE_MAXIMUM	A numeric variable which defines the maximum number of alphanumeric characters that make up a task title.
WORK	Temporary variable used for branching
WHICH	Variable that holds the number of the specific question being re-evaluated

Section V

SETUP MATERIAL

To facilitate the programming of the computer version of the Job Aid for Selecting Instructional Settings, it is necessary that you first program (in your programming language) setup material. A guide for the necessary setup material is shown below. You must, of course, establish your own value for MAXIMUM TASKS, MAXIMUM DUTY_POSITIONS, and NUMBER_OF_DUTY_POSITIONS. In addition, you will provide your own task ID numbers and task titles for \$TASKCODE(1) thru \$TASKCODE(n) -- limit 40 characters -- and your duty positions for \$DUTYCODE(1) thru DUTYCODE(n) -- limit 30 characters.

SET	MAXIMUM TASKS = 24		
SET	MAXIMUM DUTY POSITIONS =	15	
SET	TASKCODE MAXIMUM = 40		
SET	DUTY CODE MAXIMUM = 30		
STRING	\$TASKCODE (MAXIMUM TASKS)	, TASKCODE MAXIMUM	
STRING	\$DUTY CODE (MAXIMUM DUTY PO	DSITIONS), DUTYCODE MAXIMUM	
STRING	\$DUTYCODE2 (MAXIMUM DUTY]	POSITIONS, DUTYCODE MAXIMUM)	
STRING	\$MOSCODE, 10	_	
ARRAY	ISR DUTY (MAXIMUM DUTY POS	SITIONS, MAXIMUM_TASKS)	
ARRAY	ISR ⁷ (MAXIMUM TASKS)	-	
RRAY	ISR%_E(MAXIMUM_TASKS)		
ARRAY	SETTING (MAXIMUM_TASKS)		
ARRAY	FSETTINGS (MAXIMUM_TASKS)		
ARRAY	ISR_QUESTION(14, MAXIMUM_	TASKS)	
STRING	\$INSTR_SETTING(3),20		
SET	<pre>\$INSTR_SETTING(1) = "INS"</pre>	IITUTIONAL"	
SET	\$INSTR_SETTING(2) = "S O J T"		
SET	<pre>\$INSTR_SETTING(3) = "SEL]</pre>	F STUDY"	
SET	$NUMBER_OF_TASKS = 24$		
SET	\$TASKCODE(1) = 574-2058	Operate Radio Test Set AN/VRM-1 to Test Modules in AN/VRC-12 Series Radio Sets	
SET	\$TASKCODE(2) = 587-0025	Repair Radio Set, AN/PRC-25/77	
SET	\$TASKCODE(3) = 587-0032	Systems Troubleshooting Radio Set, AN/VRC-12 including C-2742/VRC to a Defective Component, Cable or Accessory	
\$SET	TASKCODE(n) = 587-1027	Verify installation of Radio Set AN/VRC-46 in a Tracked Vehicle	

\$SET	NUMBER OF DUTY POSITIONS = 2	
\$SET	<pre>\$DUTYCODE(1) = Support Mechanic</pre>	
\$SET	<pre>\$DUTYCODE(2) = Special Forces Mechan</pre>	ic
	•	
	•	
	•	
\$SET	<pre>\$DUTYCODE(n) =</pre>	

í

:

بطعيدة فنعاد خليرة

\$-17

46

C. Since and a

Section VI

PROGRAMMING SPECIFICATIONS



BLOCK	COMMAND	TAG	COMMENTS
la	SHOW	Have you read the Introduction to the Job Aids?	
	DECIDE	block3a, block2a	
2a	SHOW	(text2a)	
	WAIT	blockla	
		48	
	1		

(text2a) The Introduction to the Job Aids is presently contained in Chapter I of the booklet, <u>Supplemental Guide: Sources</u> <u>Information for On-Line Implementation of ISD I.5 Select</u> <u>Instructional Setting</u>, which can be obtained from your supervisor.

> Sign off the computer and obtain this Supplemental Guide. After reading it, sign back on to the computer to continue.

No. of Lot of Lo



「「「「「「「「」」」」」

i.

j.

 $(1, \dots, n_{n})$

Ĕ

BLOCK	COMMAND	TAG	COMMENTS
За	Show	Have you used this Job Aid before? Enter Y or N. If you want to see a previous display, enter B (for BACK).	
	DECIDE	block4a, block5a, block1a	
4a	SHOW	Do you want to see an overview of the Job Aid and instruction in using this computer program?	
	DECIDE	block5a, block6a, block3a	
5a	SHOW	(text5a)	
	WAIT	block3a	
5b	SHOW		***programmerprovide instruction (text) for sign- ing on and off your system.
	WAIT	block5a	
5c	SHOW	(text5c)	
	WAIT	block5b	
5đ	Show	(text5d)	
	WAIT	block5c	
5e	SHOW	text5e	
	WAIT	block5d	
5f	SHOW		***programmerprovide instruction (text) for answering questions.
	WATI	210CK26 20	
		50	

.

(text5a) To use this Job Aid you must know how to interact with the computer. Specifically, you will need to know:

- (1) How to sign on and off the computer system.
- (2) How to advance to new material.
- (3) When and how to review previously viewed material.
- (4) When additional help is available and how this help can be accessed.
- (5) How to answer questions presented by the computer.
- (6) When and where off-line guidance is available.

#PRESS NEXT# FOR FURTHER INFORMATION ON EACH OF THE ABOVE.

(text5c)

HOW TO ADVANCE TO NEW MATERIAL

In all cases where there is only textual material being presented, you can signal the computer that you are ready to go to new material by #PRESS NEXT#.

(text5d) TO REVIEW PREVIOUSLY VIEWED MATERIAL

For some parts of the program you will be allowed to review previously viewed material if you so desire. Whenever the review option is available, you will see on your display "BACK." If you wish to exercise the review option #PRESS BACK#.

If the review option is requested when not available, "BACK not available" will appear on your display.

(text5e)

and the second second

ADDITIONAL HELP

In a few displays for the program, additional assistance is available for responding to a question asked by the computer. Whenever additional assistance is available, you will see on your display, "HELP". If you wish to exercise this option, #PRESS HELP#.

If the "HELP" option is requested when not available, "HELP not available" will appear on your display.

BLOCK	COMMAND	TAG	COMMENTS
5g	SHOW	(text5g)	
	WAIT	block5f	
5h	SHOW	Would you like to review the instruction on using this program?	
	DECIDE	block5a, block51, block5g	
51	SHOW	#PRESS NEXT# for an overview of the Instructional Settings Job Aid	
	SHOWB	Guide reference pages 3-4.	
	WAIT	block5h	
5j	SROWB	(text5j)	
	WAIT	block51	
5k	SHOWB	(textk)	· · · · · · · · · · · · · · · · · · ·
	WAIT	block5j	
5m	SHOWB	(text5m)	
	WAIT	block5k	
		52	

(texm:5g)

OFF-LINE GUIDANCE

In some cases, "MANUAL, pp _____" will appear on your display. This will usually indicate that a series of textual matter is included in an off-line manual as well as being in the computer. You may find the manual particularly useful for reviewing material or for getting a wider perspective than can be obtained on the computer.

(text5j)

OBJECTIVE

- Given a list of tasks selected for training within a single skill level, select the most appropriate instructional setting for training each task to the Soldier's Manual Standard. (Qualification Training)
- 2. Record the basis for each instructional setting selection.

(text5k)

PURPOSE

The purpose of this aid is to help you choose instructional settings (training locations) for tasks selected for training within each skill level. Due to advancements in instructional technology, it is often more cost-beneficial and efficient to train tasks in a non-institutional (extension) setting. This aid is designed to help you identify as many tasks as possible for which extension training is appropriate.

(text5m)

PRODUCT

This job aid will result in a listing of all critical tasks in which each task is assigned for training to one of the following instructional settings:

- a. Institution (resident school training)
- b. Supervised On-the-Job Training (SOJT)
- c. Self-study

This output will be especially useful in the preparation of the Commander's Manual.

The star second

BLOCK	COMMAND	TAG	COMMENTS
5n	SHOW	(text5 _n)	
	WAIT	block5n	
50	SHOW	(text5o)	
	WAIT	block5n	
5p	SHOW	(text5p)	
· <u> </u>	WAIT	block50	
		54	
		54	
		l	

(text5n) OVERVIEW OF MAJOR STEPS IN SELECTING INSTRUCTIONAL SETTING

- Step 1. Tasks selected for training are categorized by duty position.
- Step 2. Task performance data is obtained and recorded for each task. That is:
 - a. In which duty position is the task performed?
 - b. What percentage of soldiers perform the task?

(Continued)

- (text50) OVERVIEW OF MAJOR STEPS IN SELECTING INSTRUCTIONAL SETTING (Continued)
 - Step 3. <u>Initial</u> assignment of the task to one of three instructional settings (institution, supervised on-the-job training, or self-study) is made based on the answers to the following 14 questions:
 - (1) Is task a common skill level task?
 - (2) Is task performed by a high percentage of soldiers?
 - (3) Is task performed in a similar manner in various duty positions and units?

(Continued)

(text5p) OVERVIEW OF MAJOR STEPS IN SELECTING INSTRUCT TONAL SETTING (Continued)

Step 3. (Continued)

- (4) Is proficiency in task performance retained over time? (i.e., not easily forgotten)
- (5) Does task require considerable theoretical knowledge?
- (6) Must the task be performed immediately on entry to the job?
- (7) Is the task a prerequisite for learning to perform other school trained tasks?

(Continued)

LOCK	COMMAND	TAG	COMMENTS
5q	SHOW	(text5q)	
	WAIT	block5p	
5r	SHOW	(text5r)	
	WAIT	block5q	1
5s	SHOW	(text5s)	
	WAIT	block5r	
		56	

۰.

(text5q) OVERVIEW OF MAJOR STEPS IN SELECTING INSTRUCTIONAL SETTING (Continued)

Step 3. (Continued)

- (8) Is training equipment and/or facilities only available at the school?
- (9) Is the equipment required for individual training of the task in the unit available at most units?
- (10) Are personnel with the necessary expertise to conduct training of the task available at most units?

(Continued)

- (text5r) OVERVIEW OF MAJOR STEPS IN SELECTING INSTRUCTIONAL SETTING (Continued)
 - Step 3. (Continued)

- (11) Do Operational requirements at most units allow sufficient time for the soldier to receive training in the unit?
- (12) Can the task be learned with very little supervision?
- (13) Does the soldier's schedule allow sufficient time for independent study?
- (14) Can everything required for training (which is not already available in the unit) be included in the exportable training package at a cost competitive with school (institution) training?
- (text5s) OVERVIEW OF MAJOR STEPS IN SELECTING INSTRUCTIONAL SETTING (Continued)

The complete list of questions from Step 3 is not necessarily asked for each task. Questions are asked <u>only</u> until a decision is reached for task assignment to a particular instructional setting.

BLOCK	COMMAND	TAG	COMMENTS
5t	SHOW	(text5t)	
	WAIT	block5s	
5u	SHOW	(text5u)	
	WAIT	block5t	
 5v	SHOW	(text5v)	
	WAIT	block5u	
5w	SHOW	(text5w)	
	WAIT	block5v	
5x	SHOW	(text5x)	
	WAIT	block5w	
5y	SHOW	(text5y)	
	WAIT	block5x)	
5z	SHOW	(text5z)	
	WAIT	block5y	
5aa	SHOW	(text5aa)	
	WAIT	block5z	
		58	

and the second second

- (text5t) OVERVIEW OF MAJOR STEPS IN SELECTING INSTRUCTIONAL SETTING (Continued)
 - Step 4. Administrative review and final selection of instructional setting.

In Step 3, tasks are assigned <u>initially</u> to one of the three instructional settings. In this step each task is reviewed to determine if the initial assignment is still the best instructional setting on the basis of expert opinion. In the review of each task, questions of the type shown on the following displays are asked:

- (text5u) (1) Have so many tasks been assigned to SOJT or Self-Study that there is not enough time to train all the tasks before they must be performed?
- (text5v) (2) have so many tasks been assigned to SOJT that units can't handle the load?
- (text5w) (3) Have so few tasks been assigned to a particular setting that administrative costs outweigh the advantages of training so few tasks in this instructional setting?
- (text5x) (4) Would resource and time constraints in the development of new training programs delay the onset of critically needed training?
- (text5y) (5) Are there any other reasons why the initially selected instructional setting should be changed?
- (text5z) After reviewing each task and asking questions similar to those just shown, any indicated changes in instructional setting is made. The rationale for each change is to be carefully documented.
- (text5aa) The task listing with the tinal selections of instructional settings is submitted to the supervisor for review and revision.



......

BLOCK	COMMAND	TAG	COMMENTS
5ъъ	Show	Would you like to review the over- view for this Job Aid again?	
	SHOWB	Guide reference pages 3-4.	
_	DECIDE	block51, block6a	
6 a	Show	(text6a)	
	DECIDE	block7a, block8a, block4a	
7a	Show	(text7a)	
	SHOWB	Guide reference pages 5-6.	
	WAIT	block6a	
7Ъ	Show	(text7b)	
	WAIT	block7a	
7c	Show	(text7c)	
	WAIT	block7b	
		6	
		60	
	Į	Į	

S Stand Break and

- (text6a) The instructional setting will often determine both the location and manner in which instruction on a task is to take place. Selecting the most appropriate instructional setting is important for several reasons. Among them are:
 - Soldiers learn tasks better in the proper setting and retain them longer.
 - With training requirements increasing in a time of decreasing resources, the best possible use must be made of our trainers and our training dollars.
- (text7a) The three instructional settings used in this Job Aid are;
 - Institution (Inst)
 - Supervised on-the-job training (SOJT)
 - Self-study

Do you want a description of each of these instructional settings?

(text7b)

Institution(INST)

Training conducted at TRADOC resident schools and includes:

OSUT - One Station Unit Training

PNCOC - Primary Noncommissioned Officer Course

BNCOC - Basic Noncommissioned Officer Course

ANCOC - Advanced Noncommissioned Officer Course

Training is always conducted under supervision of qualified instructors.

Press #NEXT# for description of Supervised On-The-Job Training (SOJT)

(text7c)

Supervised On-The-Job-Training (SOJT)

- -- Training is conducted at the soldier's unit
- -- Training is supervised by best qualified NCOs in unit.

Press #NEXT# for description of Self-Study

BLOCK	COMMAND	TAG	COMMENTS
7d	SHOW	(text7d)	
	WAIT	block7c	
7e	SHOW	(text7e)	
	WAIT	block7d	
7f	SHOW	(text7f)	
	WAIT	block7e	
7g	SHOW	(text7g)	
	WAIT	block7f	
		62	
		1	

Ţ

Self-Study

(text7d)

Training administered during individuals own time, usually at the soldier's unit, and includes:

- Self-teaching exportable packages (STEP)
- Training Extension Courses
- Job Performance Aids
- Study Guides
- Correspondence Courses
- Films, tapes, etc.

Little supervision required

(text7e) Press #NEXT# to see the advantages and disadvantages of the three instructional settings.

(text7f)

INSTITUTION

- Advantages Usually best setting for training common skill level tasks or tasks that are performed by large percentage of soldiers in the MOS/skill level
 - Sophisticated training resource and expertise available
- Disadvantages Lack of real world environment - High cost of soldier's housing and travel - Time is spent away from job assignment

(text7g) SUPERVISED ON-THE-JOB-TRAINING

- Advantages Effective for training tasks that can be learned faster or better with hands-on experience
- Disadvantages May tie up unit's equipment and thus equipment may not be available for operational use
 - May overburden supervisors
 - Reduces time available in unit for operational requirements

BLOCK	COMMAND	TAG	COMMENTS
 7h	Show	(text7h)	
	WAIT	block7g	
71	SHOW	(text71)	
·	WAIT	block7h	
i			
		64	
		1	I

「ない」というないというないたかであったとう

Strain Strain

No. Sec.

Loky a treas

(text7h)

Southern and the second second

Ę.

SELF-STUDY

- Advantages Effective for training tasks which can be learned without an instructor or where little supervision is required
 - Can be accomplished at trainee's convenience
- Disadvantages If study occurs during normal duty hours, this type of training may reduce time available in unit for operational requirements.
 - May require soldier to devote considerable off-duty time to study
- (text7i) Tables which provide a comparison of the description of each instructional setting and the advantages and disadvantages of each are shown in the <u>Supplemental Guide: Source Information</u> for On-Line Implementation of ISD I.5 Select Instructional <u>Setting on page 6.</u> (Hereafter referred to as Supplemental Guide.)

<u>.</u>	
	flocard" MOS Cada Brill Lovai
	Chuck Duty Paulitions for Correctness
_	

C 47 T 7 1 7 1 7 1

BLOCK	COMMAND	TAG	COMMENTS
8a	SHOW	What MOS are you working with?	
	\$ACCEPT	\$MOSCODE,10	
	SHOW	What is the skill level?	
	ACCEPT	SKILL,1,4	
·	SHOW	You are working with MOS /\$MOSCODE/ and the skill level is /SKILL/. Is this correct?	
	DECIDE	block9a, block8a, block6a	
9a	SHOW	(text9a)	
	WAIT		
9Ъ	ITERATE	DP , 1 , NUMBER_OF_DUTY_POSITIONS	
	SHOW	Duty position /DP/ is /\$DUTYCOLE(DP)/	***roll on all duty position designators onto terminal. The end product should be a list of duty position designators.
	NEXT	90	
	SHOW	Are these duty positions correct?	
	DECIDE	block10a, block9c	
9c	Show	(text9c)	
	WAIT		
		66	
(text9a) In previous ISD Blocks it was established that there are /NUMBER_OF_DUTY_POSITIONS/ duty positions.

#PRESS NEXT# to see a list of the duty positions that were recorded in earlier ISD Blocks.

- (text9c) It is extremely important that before you make any additions, deletions, or changes in duty positions that you check with:
 - Your supervisor
 - The individual(s) who prepared the Critical Task List (ISD I.2)
 - The individual(s) who performed task analysis (ISD I.3). If they agree with your suggested additions, deletions, or changes you will be allowed to enter them into the terminal.

BLOCK	COMMAND	TAG	COMMENTS
9d	SHOW	Do you still want to make any additions, deletions, or changes in duty position designations?	
	DECIDE	block9e, block10a	
	ITERATE	DP, 1, NUMBER_OF_DUTY_POSITIONS	
	\$SET	<pre>\$DUTYCODE2(DP) = \$DUTYCODE(DP)</pre>	****copy\$DUTYCODE's to \$DUTYCODE2
	NEXT	DP	, ,
	SET	DPNEW = 0	
	ITERATE	DP, 1, NUMBER_OF_DUTY_POSITIONS	
9f	SHOW	Duty position /DP/ is /\$DUTYCODE2(DP)/. Is this correct?	
i	DECIDE	block9i, block9g	
9g	SHOW	Do you want to delete this duty position?	
	DECIDE	block9j, block9h	
91:	SHOW	Enter the correct duty position designation.	
	ACCEPT	\$INPUTLINE, 100	
	\$SET	\$DUTYCODE2(DP) = \$INPUTLINE	
	goto	block9f	
		68	

is always

· ·

ŗ,

BLOCK	COMMAND	TAG	
91	SET	DPNEW = DPNEW +1	
	\$SET	\$DUTYCODE(DPNEW) = \$DUTYCODE2(DP)	
9j	NEXT	DP	
	SET	NUMBER_OF_DUTY_POSITIONS = DPNEW	
9k	SHOW	Are there any additional duty position designations that should be added?	
	DECI DE	block9m, block9o	
9m	GOTO	block9n IF NUMBER_OF_DUTY_POSITIONS MAXIMUM_DUTY_POSITIONS	
	SHOW	Enter a new duty position designa- tion.	
	SET	NUMBER_OF_DUTY_POSITIONS = NUMBER_OF_DUTY_POSITIONS +1	
	\$ACCEPT	\$INPUTLINE,100	
	\$SET	<pre>\$DUTYCODE(NUMBER_OF_DUTY_POSITIONS) = \$INPUTLINE</pre>	
9n	Show	There is no more space available for duty code designations. #PRESS NEXT# to continue	
i	WAIT		
90	Show	<pre>#PRESS NEXT# to see a corrected list of duty position designations.</pre>	
	WAIT	70	

۰	
Record Task In Each Duty	s Performed Position
	\square
· 1	

	BLOCK	COMMAND	TAG	COMMENTS
-	9р	ITERATE SHOW	DP, 1, NUMBER_OF_DUTY_POSITIONS Duty position /DP/ is /\$DUTYCODE(DP)/	****roll on all duty position designators onto terminal. The end product should be a list of duty position
		NEXT	DP	designators.
		SHOW	Are these duty positions correct?	
	·	DECIDE	block10a, block9e	
	10a	SHOW	The next operation is to determine which tasks are performed in each duty position.	
		ITERATE	TASK, 1, NUMBER_OF_TASKS	
	10ъ	ITERATE	DP, 1, NUMBER_OF_DUTY_POSITIONS	
		Show	Does the /\$DUTYCODE(DP)/ perform this task:	
			/\$TASKCODE(TASK)/	
	10c	SET	ISR_DUTY(DP,TASK) = 1	****indicate a "yes" response ****process the next duty position.
		GOTO	blockl0e	
	10d	SET	ISR_DUTY(DP,TASK) = 0	
			72	

A. CONTRACTOR STATE

BLOCK	COMMAND	TAG	COMMENTS
10e	NEXT	DP	
	SHOW	(textl0e)	****show the question, the task and a table showing each duty position number and whether user claimed soldier performed or not in each duty position. Programmer should modify format
	ITERATE	DP, 1, NUMBER_OF_DUTY_POSITIONS	to fit computer system.
	GOTO	blocklOf IF ISR_DUTY(DP,TASK) = 1	
	GOTO	block10g IF ISR_DUTY(DP,TASK) = 0	
10f	SET	\$PERFORMS = "yes"	
	GOTO	block10h	
10g	SET	\$PERFORMS ≈ "no"	
10h	Show	(text10e)	****show only /DP/ & /\$PERFORMS/
	NEXT	DP	
101	NEXT	TASK	
		77	
		/4	

and the second states of the

(text10e) Do you want to respecify the duty positions in which this task is performed?

/\$TASKCODE(TASK)/

5

Same was

DUTY PO	S PERFORMS	DUTY POS	PERFORMS
/DP/	/\$PERFORMS/	/DP/	/sperforms/

Refer to duty position listing

- water to a to be a to be

.



11.21

.

BLOCK	COMMAND	TAG	COMMENTS
11a	Show	(textlla)	
	SHOWB	Guide reference page 7.	
	WAIT		
116	Show	(textllb)	
	WAIT	blocklla	
11c	SHOW	(textllc)	
	WAIT	block11b	
11d	Show	(textlld)	
	WAIT	blockllc	
lle	Show	(textlle)	
	WAIT	blocklld	
		76	
	•	1	

ŧ

AT LEAST CONTRACT

State State State

(textlla)

The next operation you will perform is to determine and record the percentage of soldiers in the skill level who perform each task. There are several sources which can provide this information. #PRESS NEXT# for a description of these sources. Remember, you will use one or more of these sources for entering the percentage of soldiers in the skill level who perform each task.

(text11b)

CODAP GROUP SUMMARY REPORT

CODAP data, when available, are excellent for determining the percent of soldiers within the skill level who perform each task. However, it is likely that not all tasks represented in the skill level will be represented on the CODAP Report. Consequently, even when a CODAP Report is available, it will probably be necessary to supplement the data from the Report with data from other sources.

(textllc)

FIELD SURVEY

Field Survey data are excellent for determining the percent of soldiers who perform each task. However, a field survey should <u>only</u> be conducted when CODAP data are not available (or badly out of date) and when there is sufficient time to conduct the survey. Guidance for conducting a field survey can be found in Chapter III of the Supplemental Guide.

(textlld)

PANEL OF RECENT JOB INCUMBENTS

This represents a fair source of information for determining the percent of soldiers within the skill level who perform each task. See Chapter VI of the Supplemental Guide.

(text lle)

PANEL OF SUBJECT MATTER EXPERTS

Use this source only if none of the above sources are available. See Chapter VI of the Supplemental Guide.

BLOCK	LOMMAND	TAG	COMMENTS
11f	SHOW	(textllf)	
	SHOWB	Guide reference page 7.	
	WAIT	blockllh	
11g	ITERATE	TASK, 1, NUMBER_OF_TASKS	
11h	SHOW	What percentage of soldiers perform the task: /\$TASKCODE(TASK)/? Enter a value between 1 - 100	
	ACCEPT	ISR_%(TASK), 1, 100	
	SHOW	Is this percentage value an estimate (i.e., <u>not</u> CODAP or field survey results)?	
	DECIDE	blocklli, blockllj, blockllh	
111	SET	ISR_%E(TASK)	****remember that it's an estimate
	GOTO	blockllk	
11j	SET	$IRS_{ZE}(TASK) = 0$	****indicate an exact percentage
11k	NEXT	TASK	
		78	

Contract of the local division of the local

(text11f) As a last resort, you may have to use your own judgment. You will now enter the percentage of soldiers in the skill level who perform each task.

.

and the second second

BLOCK	COMMAND	TAG	COMMENTS
llm	Show	(textllm)	***textllm is a part of a table. Show the question and the headings for a table. The data to be shown in the table is
	ITERATE	TASK, 1, NUMBER_OF_TASKS	textllp
	ютю	blocklin IF ISR_ZE(TASK) = 1	
	GOTO	blockllo IF ISR_XE(TASK) = 0	
lln	SET	\$ESTIMATE ≠ "Yes"	
	GO TO	blockllp	
110	SET	\$estimate = "No"	
11p	Show	(textllp)	***textllp provides the data for the table set up in blockllm
	NEXT	TASK	
	DECIDE	blocklk, blockl2a, blockllg	
		80	

S. All Marine

È

The second se

and the second second in the second se

ì

ι.,

1

A Sumary

(text11m) Do you want to respecify these percentages?

	TASK	%	ESTIMATE	TASK	%	ESTIMATE
(textllp)	*	**	***	*	**	***
	*	**	* * *	*	**	***
	*	**	* * *	*	**	***
	etc	etc	etc	etc	etc	etc

NOTE TO PROGRAMMER: In the above table, replace the *, ** and *** as follows:

* = \$TASKCODE(TASK) ****** = ISR_%(TASK) ******* = \$ESTIMATE(TASK)

S. Strate States

BLOCK	COMMAND	TAG	COMMENTS
11q	ITERATE	TASK, 1, NUMBER_OF_TASKS	
	SHOW	(textllq)	
	ACCEPT	\$COMMAND, 1	
	GOTO	blockllr IF \$COMMAND = "Y"	
	GOTO	blockllu IF \$COMMAND = "N"	
	GOTO	blockl2a IF \$COMMAND = "F"	
11 r	SHOW	What percentage of soldiers perform /\$TASKCODE(TASK)/?	
	ACCEPT	ISR_%(TASK), 1, 100	
	SHOW	Is this percentage an estimate?	
	DECIDE	blocklls, blockllt, blockllr	
11s	SET	ISR_%E(TASK) = 1	
	GOTO	blockllu	
llt	SET	ISR_%E(TASK) = 0	
11u	NEXT	TASK	
	GOTO	blockllm	
		82	

.

and a state of the

(text1lq)

Percent Performing = /ISR_%(TASK)/

Do you want to change the percentage for task:

TASK

<u>ESTIMATE</u> /\$ESTIMATE/?

/\$TASKCODE(TASK)/?

83



-

BLOCK	COMMAND	TAG	COMMENTS
 12a	Show	(textl2a)	
	WAIT	blockllm	
12Ъ	SHOW	(text12b)	
	WAIT	block12a	
12c	SHOW	What is the criterion for a High Performance Task?	
	ACCEPT	HP_CRITERION, 1, 100, block12a	
	Show	The criterion for a high performance task is /HP_CRITERION/ percent performing or more. Is this correct?	
	DECIDE	blockl3a, blockl2c, blockl2a	
		84	

(text12a) Your next activity will be to establish the percentage criteria to use for classifying a task as a "high performance task."

> "High Performance Tasks" are those tasks that are performed by a high percentage of job incumbents. High Performance Tasks are usually trained in the institutional instructional setting.

#PRESS NEXT# for sources of information on how to establish
the percentage criteria for "High Performance Tasks."

(text12b) Sources of Information:

- Check with your supervisor. Your installation may have already established a certain percentage as the criterion for training a task in the institution.
- Check with subject matter experts working in other MOSs. Find out what value(s) they have used and their reasons for selecting that value.

0.000



BLOCK	COMMAND	TAG	COMMENTS
13a	SHOW	(textl3a)	
	WAIT		
13b	Show	(textl3b) or (textl3b-alt)	****If only a part of the task description is stored, use text13b-alt. Otherwise,
	WAIT	block13a	use text13b.
13c	SHOW	(text13c)	
	WAIT	block13b	
13d	Show	(text13d)	
	WAIT	block13a	
13e	ITERATE	TASK, 1, NUMBER_OF_TASKS	
	SET	SETTING(TASK) = 0	****indicates that task is unassigned.
13f	ITERATE	Q, 1, 14	
	ITERATE	TASK, 1, NUMBER_OF_TASKS	
	SET	ISR_QUESTION (Q, TASK) = 99	
	NEXT	TASK	
	NEXT	Q	
14a	GOTO	block17a IF SKILL = 1	
		86	

(text13a) We will now attempt to assign each task to a tentative instructional setting by asking certain questions. Questions are asked <u>only</u> until a decision is reached for task assignment to a particular instructional setting.

#PRESS NEXT# to learn the procedure that will be used for each question.

- (text13b) FIRST: You will be shown the question and told what it is all about.
 - SECOND: You will be provided sources of information for answering the questions.
 - THIRD: You will again be shown the question. You will have the option of reviewing any previously seen "sources of information" before you answer the question.
- (text13b-alt) FIRST: You will be shown enough of the task so that you can identify it on your task list. At this same time, you will be shown the question and told what it is all about.
 - SECOND: You will be provided sources of information for answering the question.
 - THIRD: You will again be shown part of the task and the question. You will have the option of reviewing any previously seen "sources of information" before you answer the question.
 - (text13c) If you would like to see a complete list of the questions, refer to the Supplemental Guide, page 4. However, keep in mind that the complete list of questions is not necessarily asked for each task.

(task13d) #PRESS NEXT# for the first question.



et et d

and the second second second second

critica france

and the second sec

ALC: NOT

.....

بهري بالمسادية والاستركر ساري ساري

BLOCK	COMMAND	ГАG	COMMENTS
15a	SHOW	/\$TASKCODE(TASK)/	
		Has the above task been assigned an instructional setting at a lower skill level?	
	DECIDE	blockl6a, blockl7a	
16a	Show	(textl6a)	
	ACCEPT	S, 1, 3	
	SET	SETTING(TASK) - S	
	GOTO	block35a IF TASK = NUMBER_OF_TASKS	
	Show	#PRESS NEXT# to exami ne the next task.	
	NEXT	TASK	
18a	GOTO	block39a IF NUMBER_OF_DUTY_POSITIONS = 1	
		88	

1

Constant of the second

ومحققا والمتحققة ومعتناه كمهيدان والمتناهد كمعاد

(text16a) Which instructional aetting was it assigned? (ENTER THE NUMBER)

- 1 -- Institutional
- 2 -- Supervised on-the-job Lcaining (SOJT) 3 -- Self-study



BLOCK	COMMAND	TAG	COMMENTS
18a	SET	$ISR_QUESTION(1, TASK) = 0$	****default to "no"
	ITERATE	DP, 1, NUMBER_OF_DUTY_POSITIONS	
i	goto	block19a IF ISR_DUTY(DP,TASK) = 0	
	NEXT	סע	
	SET	ISR_QUESTION(1, TASK) = 1	****indicate "Y" for question 1.
19a	GOTO	block19b IF ISR_%(TASK)≥HP_CRITERION	
	SET	ISR_QUESTION(2,TASK) = 0	****Not a high performance task.
	goto	block20a	
19b	SET	ISR_QUESTION(2, TASK) = 1	****It is a high performance task.
20a	SET	WORK = ISR_QUESTION(1, TASK)+ ISR_QUESTION(2, TASK)	
	goto	block25a IF WORK = 0	
:			
		90	

and the same the same of the same

BLOCK	COMMAND	TAG	COMMENTS
21a	SHOW	(text21a)	
	WAIT		
21ь	SHOW	(text2lb)	
	SHOW B	Guide reference page 7.	
	WAIT	block21a	
21c	Show	(text2lc)	
	WAIT	block21b	
21d	Show	(text21d)	
	WAIT	block21c	
21e	SHOW	(text2le)	
	WAIT	block21d	
21f	SHOW	(text2lf)	
	WAIT	block21e	
21g	SHOW	(text21g)	, ,
	WAIT	block2lf	
]		
		92	
	1		

21 And Downing 1 March 1977 2 - N-N Approprint

(text21a) /\$TASKCODE(TASK)/

Press #NEXT# for sources of information for answering the following question: Are the training requirements for this task essentially the same regardless of the mission, equipment allocation, geographical location, etc., of units in which the job incumbent is assigned? If task training requirements are much the same, an institution training setting should be strongly considered. On the other hand, if training requirements differ considerably between units or duty positions, training in the unit (SOJT or self-study) should be considered.

(text21b) SOURCES OF INFORMATION

Job performance measures or task performance descriptions developed in ISD I.3 Construct Job Performance Measures is an excellent source of equipment used in task performance. This will assist in determining whether equipment differences between units will have an effect on training requirements.

(text21c) SOURCES OF INFORMATION (continued)

TOE/MTOE and TDA is another excellent source of information concerning equipment allocation in various units.

(text21d) SOURCES OF INFORMATION (continued)

Training Manuals and supply bulletins used in conjunction with TOE should be considered as a good source of information.

(text21e) SOURCES OF INFORMATION (continued)

A panel of recent job incumbents can provide good information for answering this question. See Supplemental Guide for guidance in establishing and using this particular panel.

(text21f) SOURCES OF INFORMATION (continued)

Panel of subject matter experts. This also is a good source. See the Supplemental Guide for guidance in establishing and using a panel of subject matter experts.

(text21g) SOURCES OF INFORMATION (continued)

Your own judgment. Use only as a last resort or in conjunction with other sources.

BLOCK	COMMAND	TAG	COMMENTS
21h	SHOW	(text21h)	
	DECIDE	block21b, block211	
211	Show	(text211)	
	Showb	Guide reference page 7.	
	DECIDE	block21j, block21k, block21b	
21j	SET.	ISR_QUESTION(3,TASK) = 1	
	goto	block22a	
21k	SET	ISR_QUESTION(3, TASK) = 0	
		94	
	1		

(text21h) Would you like to review the various sources of the formation before you answer the question?

(text21i) ANSWER THIS QUESTION

haten alle so haten atte bei here atte

/\$TASKCODE(TASK)/

Are the training requirements for this task essentially the same regardless of the mission, equipment allocation, geographical location, etc., of units in which the job incumbent is assigned?

-	
And Barman I. Barard """ u" "t" a Appropriati.	

	BLOCK	COMMAND	TAG	COMMENTS
	22a	SHOW	(text22a)	
		WAIT	block21a	
	22Ъ	SHOW	(text22b)	
		SHOWB	Guide reference page 8.	
		WAIT	block22a	
	22c	SHOW	(text22c)	
		WAIT	block22b	
	22d	SHOW	(text22d)	
		WAIT	block22c	
_	22e	SHOW	(text22e)	
		WAIT	block22d	
_	22f	SHOW	(text22f)	
		WAIT	block22e	
	22g	SHOW	(text22g)	
		DECIDE	block22b, block22h	
	22h	SHOW	(text22h)	
		SHOWB	Guide reference page 8.	
		DECIDE	block221, block22j, block22b	
			96	
	1	l		

(text22a) /\$TASKCODE(TASK)/

Press #NEXT# for sources of information for answering this question: If this task is taught in the school (institution), will it still be remembered by the time the soldier has to perform the task on the job? We all know that there are some tasks we remember how to do more easily than others. Factors which influence retention must be considered when you select the instructional setting. There is no point in training a task in the institution if the soldier can't remember how to perform the task when he arrives on the job. SOJT or self-study should be considered when training retention is likely to be low.

(text22b) The following are examples of factors to consider in answering this question:

Tasks for which the soldier has had previous civilian or military experience will usually be easily remembered (e.g., driving a vehicle).

- (text22c) Tasks which the soldier considers important to remember will be better learned and more easily recalled.
- (text22d) Some tasks require frequent opportunities for practice in order to retain task proficiency.
- (text22e) In general, motor tasks (physical activities) are more easily remembered than mental tasks.
- (text22f) Tasks which involve short regular procedures are more easily remembered than those for which there is no clear cut procedure to follow.
- (text22g) Would you like to review the factors to consider when deciding whether the task is a high retention task?

(text22h) ANSWER THIS QUESTION

/\$TASKCODE(TASK)/

If this task is taught in the school (institution), will it still be remembered by the time the soldier has to perform the task on the job?

97

145 THE REAL



ş · · · •

.

ALAN ALAN ALANA ALANA

BLOCK	COMMAND	TAG	COMMENTS
221	SET	ISR_QUEST TON (4, TASK) = 1	
	GOTO	block23a	
22j	SET	ISR_QUESTION(4, TASK) = 0	
23a	SET	WORK = ISR_QUESTION(3, TASK) + ISR_QUESTION(4, TASK)	
	GOTO	block25a IF WORK # 2	****If not both "Y" answers
24a	SET	SETTING(TASK) = 1	****Assign to institutional setting initially.
	GO TO	block35a IF TASK = NUMBER_OF_TASKS	
	SHOW	<pre>#PRESS NEXT# to examine the next task.</pre>	
	NEXT	TASK	
*			
		98	



BLOCK	COMMAND	TAG	COMMENTS
25	a Show	(text25a)	
	WAIT		
251	s HOW	(text25b)	
	SHOWB	Guide reference page 8.	
	WAIT	block25a	
25	c SHOW	(text25c)	
	WAIT	block25a	
250	i show	(text25d)	
	WAIT	block25c	
256	e show	(text25e)	
	WAIT	block25d	
25	e show	(text25f)	
	DEC IDE	block25b, block25g	
25	g Show	(text25g)	
	SHOWB	Cuide reference page 8.	
	DEC IDE	block25h, block25i, block25b	
		100	

.

(text25a) /\$TASKCODE(TASK)/

Press #NEXT# for sources of information for answering this question: Is there a considerable amount of theory to be taught with this task?

(text25b) SOURCES OF INFORMATION

Output from ISD I.3 Construct Job Performance Measures, or ISD I.2 Conducting Task Analysis, provide a good source of information. Examine task descriptions to determine how the task is performed. This should provide an excellent insight into the amount of theoretical content that will be required for training the task.

(text25c) SOURCES OF INFORMATION (continued)

Training Manuals are an excellent source of information.

(text25d) SOURCES OF INFORMATION (continued)

Field survey of Job Supervisors is an excellent source if time for survey is available. See the Supplemental Guide for guidance in conducting a field survey.

(text25e) SOURCES OF INFORMATION (continued)

Panel of Recent Job Supervisors. Fair source. See the Supplemental Guide for guidance in establishing panel.

- (text25f) Would you like to review the sources of information for this question before answering it?
- (text25g) ANSWER THIS QUESTION

/\$TASKCODE(1ASK)/

Is there a considerable amount of theory to be taught with this task?

BLOCK	COMMAND	TAG	COMMENTS
25h	SET	ISR_QUESTION(5, TASK) = 1	
	GOTO	block25j	
25i	SET	ISR_QUESTION(5, TASK) = 0	
25j	SHOW	(text25j)	
	WAIT	block25a	
25k	SHOW	(text25k)	
	Showb	Guide reference page 9.	
	WAIT	block25j	
25m	Show	(text25m)	
	WALT	block25k	
25n	SHOW	(text25n)	
	WAIT	block25m	
250	SHOW	(text25o)	
	DECIDE	block25k, block25p	
25p	Show	(text25p)	
	SHOWB	Guide reference page 9.	
	DECIDE	block25q, block25s, block25k	
		102	

(text25.j) /\$TASKCODE(TASK)/

Press #NEXT# for sources of information for answering this question: Must this task be performed immediately on entry to the job (i.e., before it could be trained on the job)?

(text25k) SOURCES OF INFORMATION

Field Survey of Job Supervisors and/or Incumbents. Excellent source when time for survey is available and if information is not available through CODAP. See Supplemental Guide for guidance in conducting the survey.

(text25m) SOURCES OF INFORMATION (continued)

Panel of Recent Job Incumbents. Good source. See Supplemental Guide for guidance in selecting panel.

(text25n) SOURCES OF INFORMATION (continued)

Your own judgment. Use only if all other sources are unavailable.

- (text250) Would you like to review the sources of information for this question before answering it?
- (text25p) ANSWER THIS QUESTION

/\$TASKCODE(TASK)/

Must this task be performed immediately on entry to the job (i.e., before it could be trained on the job)?

BLOCK	COMMAND	TAG	COMMENTS
2 5q	SET	ISR_QUESTION(6, TASK) = 1	
	GOTO	block253	
25r	SET	ISR_QUESTION(6, TASK) = 0	
25s	Show	(text25s)	
	WAIT		
25t	SHOW	(text25t)	
	WAIT	block25s	
25u	Show	(text25u)	
	DECIDE	block25v, block25w, block25t	
25v	SET	ISR_QUESTION(7, TASK) = 1	
	GOTO	block25x	
25w	SET	ISR_QUESTION(7, TASK) = 0	
25x	SHOW	(text25x)	
	SHOWB	Guide reference page 9.	
	WAIT		
		10/	
		104	
	ł		

· · · · · · · · · ·

(text25s) /\$TASKCODE(TASK)/

وبالاستنادية فتحكر حاسيا والمراج

Press #NEXT# for sources of information for answering this question: Is this task a prerequisite for learning and/or performing other school trained tasks (i.e., must the soldier be able to perform this task in order to learn other tasks taught in the school)?

(text25t) SOURCES OF INFORMATION

Review of other tasks already assigned to resident school setting.

(text25u) ANSWER THIS QUESTION

/\$TASKCODE(TASK)/

Is this task a prerequisite for learning and/or performing other school trained tasks (i.e., must the soldier be able to perform this task in order to learn other tasks taught in the school)?

(text25x) /\$TASKCODE(TASK)/

Press #NEXT# for sources of information for answering this question: Are equipment and/or facilities only available for training at the school?

BLOCK	COMMAND	TAG	COMMENTS
25y	SHOW	(text25y)	
	WAIT	block25x	
25z	SHOW	(text25z)	
	WAIT	block25y	
25aa	Show	(text25aa)	
	DECIDE	block25y, block25bb	
2566	SHOW	(text25bb)	
	SHOWB	Guide reference page 9.	
	DECIDE	block25cc, block25dd, block25y	
25cc	SET	ISR_QUESTION(8,TASK) = 1	
	GOTJ	block26a	
25dd	SET	ISR_QUESTION(8, TASK) = 0	
		106	

ì

(text25y) SOURCES OF INFORMATION

Check Training Manuals, task decription, etc., to determine training equipment requirements. Survey field supervisors to determine if training equipment is available in field units.

(text25z) SOURCES OF INFORMATION (continued)

Panel of Recent Job Supervisors. Use in conjunction with Training Manuals, Job Performance Measures, etc. See Supplemental Guide for guidance in selecting panel.

(text25aa) Do you want to review the sources of information before you answer the question?

(text25bb) ANSWER THIS QUESTION

/\$TASKCODE(TASK)/

Are equipment and/or facilities only available for training at the school?


p - n 🛉

Side challent for a side of

100

And some distant

Street, March (House and ; Section , March 1

E Lo PLA

BLOCK	COMMAND	TAG	COMMENTS
26a	ITERATE GOTO	Q, 5, 8 block27a IF ISR_QUESTION(Q,TASK)=1	****If answer is "Y"
	NEXT	Q	
	GOTO	block28a	
27 <u>a</u>	SET	SETTING(TASK) = 1	****Assign to institutional setting.
	goto	block35a IF TASK - NUMBER_OF_TASKS	
	Show	#PRESS NEXT# to examine the next task.	
	NEXT	TASK	
		108	
	·		

Ask Oversises 9-11, Record a "Y" or "N" for Each as Assessing	
$\neg \neg$	

BLOCK	COMMAND	TAG	COMMENTS
28a	Show	(text28a)	
	WAIT		
28ъ	Show	(text28b)	
	SHOWB	Guide reference page 9.	
	WAIT	block28a	
28c	SHOW	(text28c)	
	WAIT	block28b)	
28d	SHOW	(text28d)	
	WAIT	block28c	
28e	SHOW	(text28e)	
	DECIDE	block28b, block28f	
28f	SHOW	(text28f)	
	SHOWB	Guide reference page 9.	
	DECIDE	block28g, block28h, block28b	
28g	SET	ISR_QUESTION(9, TASK) = 1	
	GOTO	block281	
28h	SET	ISR_QUESTION(9,TASK) = 0	
		110	

(text28a) /\$TASKCODE(TASK)/

Mello and a State of Land

Press #NEXT# for sources of information for answering this question: Is the equipment required for individual training of this task in the unit available at most units?

(text28b) SOURCES OF INFORMATION

Field Survey of Supervisors is an excellent source of information if time for survey is available. See Supplemental Guide for guidance in conducting a survey.

(text28c) SOURCES OF INFORMATION (continued)

Panel of Recent Job Supervisors is a good source of information. See Supplemental Guide for guidance in selecting panel.

(text28d) SOURCES OF INFORMATION (continued)

Training Manuals to determine equipment requirement followed by review of TOE/MTOE or TDA for appropriate units. Good source of information.

(text28e) Would you like to review the sources of information before answering the question?

(text28f) ANSWER THIS QUESTION

/\$TASKCODE(TASK)/

Is the equipment required for individual training of this task in the unit available at most units?

111

BLOCK	COMMAND	TAG	COMMENTS
281	SHOW	(text28i)	
	WAIT		
28j	SHOW	(text28j)	
	SHOWB	Guide reference page 10.	
	WAIT	block281	
28k	SHOW	(text28k)	
	WAIT	block28j	
28m	SHOW	(text28m)	
	WAIT	block28k	
28n	SHOW	(text28n)	
	DECIDE	block28j, block28o	
280	SHOW	(text280)	
	SHOWB	Guide reference page 10.	
	DECIDE	block28p, block28q, block28j	
28p	SET	ISR_QUESTION(10, TASK) = 1	
	GOTO	block28r	
28q	SET	ISR_QUESTION(10, TASK) = 0	
		112	

(text281) /\$TASKCODE(TASK)/

Press #NEXT# for sources of information for answering this question: Are personnel with the necessary expertise available at most units to conduct the training for this task?

(text28j) SOURCES OF INFORMATION

Field Survey of Supervisors is an excellent source of information if time for survey is available. See Supplemental Guide for guidance in conducting a field survey.

(text28k) SOURCES OF INFORMATION (continued)

Panel of Recent Job Supervisors. Good source. See Supplemental Guide for guidance in convening the panel.

(text28m) SOURCES OF INFORMATION (continued)

Your own judgment. Use only if other sources are not available.

(text28n) Do you want to review the sources of information before answering this question?

(text28o) ANSWER THIS QUESTION

/\$TASKCODE(TASK)/

Are personnel with the necessary expertise available at most units to conduct the training for this task?

	BLOCK	COMMAND	TAG	COMMENTS
	28r	Show	(text28r)	
		WAIT		
	28s	Show	(text28s)	
	;	SHOWB	Guide reference page 10.	
_		WAIT	block28r	
	28t	SHOW	(text28t)	
		WAIT	block28a	
	28u	Show	(text28u)	
		DECIDE	block28s, block28v	
	28v	Show	(text28v)	
		SHOWB	Guide reference page 10.	
		DECIDE	block28w, block28x, block28s	
	28w	SET	ISR_QUESTION(11,TASK) = 1	
		GOTO	block29a	
	28x	SET	ISR_QUESTION(11, TASK) = 0	
			114	
	-			

Constraints.

(text28r) /\$TASKCODE(TASK)/

Press #NEXT# for sources of information for answering this question: Do operational requirements at most units allow sufficient time for the soldier to be trained in the unit?

(text28s) SOURCES OF INFORMATION

Field Survey of Supervisors is an excellent source of this information. See Supplemental Guide for guidance in conducting a field survey.

(text28t) SOURCES OF INFORMATION (continued)

Panel of Recent Job Supervisors. Good source. See Supplemental Guide for guidance in selecting panel.

(text28u) Do you want to review the sources of information before answering this question?

(text28v) ANSWER THIS QUESTION

/\$TASKCODE(TASK)/

Do operational requirements at most units allow sufficient time for the soldier to be trained in the unit?



朣

. in the second

BLOCK	COMMAND	TAG	COMMENTS
29a	I TERATE GOTO NEXT	Q, 9, 11 block31a IF ISR_QUESTION(Q,TASK) = 0 Q	
30a	SET	SETTING(TASK) = 2	****Indicates SOJT instructional setting.
	GOTO	block35a IF TASK = NUMBER_OF_TASKS	
	SHOW	#PRESS NEXT# to examine the next task.	
	NEXT	TASK	
		116	

النتكعير

BLOCK	COMMAND	TAG	COMMENTS
31a	SHOW	(text3La)	······
	WAIT		
31b	SHOW	(text3lb)	
	SHOWB	Guide reference page 10.	
	WAIT	block31a	
31c	Show	(text3lc)	
	WAIT	block31b	
31d	SHOW	(text3ld)	
	WAIT	block3lc	
31e	SHOW	(text3le)	
	WAIT	block3ld	
31f	SHOW	(text3lf)	
	DECIDE	block31b, block31g	
31g	SHOW	(text31g)	
	DEC IDE	block31h, block31i, block31b	
31h	SET	ISR_QUESTION(12, TASK) = 1	
	SHOWB	Guide reference page 10.	
	GOTO	block31j	
3].1	SET	ISR_QUESTION(12, TASK) = 0	
		118	

Ad Constant 12.14. Record of a rev for Each a Appropriat.

(text31a) /\$TASKCODE(TASK)/

Press #NEXT# for sources of information for answering this question: Can this task be learned with very little supervision (i.e., can the soldier learn the task through self-study)?

(text31b) SOURCES OF INFORMATION

Output from ISD I.2 Select Task/Functions. Task learning difficulty should have been established on a rating scale of 1 to 7 and will, therefore, be an excellent indication of the amount of supervision required.

(text31c) SOURCES OF INFORMATION (continued)

Field Survey of Job Supervisors. Excellent source if time for survey is available. See Supplemental Guide for guidance in conducting field survey.

(text31d) SOURCES OF INFORMATION (continued)

Panel of Recent Job Supervisors. Good source of information. See Supplemental Cuide for guidance in selecting panel.

(text31e) SOURCES OF INFORMATION (continued)

Your own judgment. Use only if other sources are not available.

- (text31f) Po you want to review the sources of information before you answer this question?
- (text31g) ANSWER THIS QUESTION

/\$TASKCODE(TASK)/

Can this task be learned with very little supervision (i.e., can the soldier learn the task through self-study)?

BLOCK	COMMAND	TAG	COMMENTS
31j	SHOW	(text3lj)	
	WAIT		
 31k	Show	(text31k)	
	SHOWB	Guide reference page 10.	
	WAIT	block3lj	
 31m	SHOW	(text31m)	
 	WAIT	block31k	
 31n	SHOW	(text3ln)	
	WAIT	block31m	
310	SHOW	(text310)	
	DECIDE	block31k, block31p	
31p	Show	(text3lp)	
	SHOWB	Guide reference page 10.	
	DECIDE	block31q, block31r, block31k	
31q	SET	ISR_QUESTION(13, TASK) = 1	
	GOTO	block31s	
 31 r	SET	ISR_QUESTICN(13, TASK) = 0	
		120	

(text31j) /\$TASKCODE(TASK)/

Press #NEXT# for sources of information for answering this question: Does the soldier's schedule allow sufficient time for independent study?

(text31k) SOURCES OF INFORMATION

Field Survey of Job Incumbents and Job Supervisors. Excellent source especially when a comparison is made between the two sources. See Supplemental Guide for guidance in conducting a field survey.

(text31m) SOURCES OF INFORMATION (continued)

Panel of Recent Job Incumbents and Recent Job Supervisors. Good source. See Supplemental Guide for guidance in selecting panels.

(text31n) SOURCES OF INFORMATION (continued)

Your cwn judgment. Use only if other sources are not available.

- (text3lo) Do you want to review the sources of information before you answer this question?
- (text3lp) ANSWER THIS QUESTION

and the state of the second state of the secon

/\$TASKCODE(TASK)/

Does the soldier's schedule allow sufficient time for independent study?

121

BLOCK	COMMAND	TAG	COMMENTS
31s	SHOW	(text3ls)	
	WAIT		
31t	Show	(text3lt)	
	SHOWB	Guide reference page 11.	
	WAIT	block31s	
31u	SHOW	(text3lu)	
	WAIT	block31t	
31 v	SHOW	(text3lv)	
	WAIT	block3lu	
31w	SHOW	(text31w)	
	DECIDE	block31t, block31x	
31 x	Show	(text31x)	
	SHOWB	Guide reference page 11.	
	DECIDE	block31y, block31z, block31t	
31y	SET	ISR_QUESTION(14, TASK) = 1	
	GOTO	block32a	
31z	SET	ISR_QUESTION(14,TASK) = 0	
		122	

(text31s) /\$TASKCODE(TASK)/

Press #NEXT# for sources of information for answering this question: Can everything required for training (which is not already available in the field) be included in the training package and is it inexpensively exportable?

(text31t) SOURCES OF INFORMATION

Check with Course Development Personnel.

- (text3lu) Panel of Subject Matter Experts. Fair source. See Supplemental Guide for guidance in selecting panel.
- (text31v) Your own judgment. Use only if other sources are not available.
- (text31w) Do you want to review the sources of information before answering the question?
- (text31x) ANSWER THIS QUESTION

/\$TASKOODE(TASK)/

Can everything required for training (which is not already available in the field) be incuded in the training package and is it inexpensively exportable?



	BLOCK	COMMAND	TAG	COMMENTS	
•	32a	ITERATE	Q, 12, 14		
		GOTO	block34a IF ISR_QUESTION(Q, TASK) = 0		
		NEXT	Q		
	33a	SET	SETTING(TASK) = 3	****Indicates self-study instructional setting.	
	34a	GOTO	block35a IF TASK = NUMBER_OF_TASKS		
		SHOW	<pre>#PRESS NEXT# to examine the next task.</pre>		
		NEXT	TASK		
			124		

and the second second

į,



יין דיינעייי איזי

ar 12

BLOCK	COMMAND	TAG	COMMENTS	
35a	SET	FIRST_TIME = Ø		
35Ъ	ITERATE	TASK, 1, NUMBER_OF_TASKS		
36a	GOTO	block37a IF SETTING(TASK) = 0	****Jump out of loop if an unassigned task is found.	
	NEXT	TASK		
	GOTO	block46a	****Go to review of initial assignments when all tasks are assigned.	
37a	SET	NOCOUNT = 0		
	ITERATE	Q, 9, 11		
	GOTO	block37b, IF ISR_QUESTION(Q,TASK) = 1		
	SET	NOCOUNT = NOCOUNT + 1		
	SET	WHICH = Q		
37Ъ	NEXT	Q		
	GOTO	block 4 1a IF NOCOUNT > 1		
	CALL	INTROa	****NEW PDL COMMAND TO CALL A SUBROUTINE.	
	Show	(text37b)	****Show this text in combination with text 38a, b, or c (i.e., do not automatically clear	
	GOTO	block38a IF WHICH = 9	Lext3/b).	
	GOTO	block38b IF WHICH = 10		
	GOTO	block38c IF WHICH = 11		
		126		

and the second second

- the state of the second

State to the second

(text37b) Please reevaluate the following question with respect to task

/\$TASKCODE(TASK)/:

1.1

	Art And p may to fry 18-11 18-11 Ver	7	
Ì	No 40 Amign Tas 30/1 finat Betting	k laitiefly se jurcbenal	
 N No I Personal No I Personal No Gan		San yang dan yang d yang dan yang dan y	Ge te Biect (f

BLOCK	COMMAND	TAG	COMMENTS
38a	SHOW	(text38a)	
	GOTO	block39a	
38ъ	SHOW	(text38b)	
	GOTO	block39a	
38c	SHOW	(text38c)	
39a	DECIDE	block40a, block41a	
40a	SET	SETTING(TASK) = 2	
	SET	ISR_QUESTION(WHICH, TASK) = -1	****INDICATE CHANGED ANSWER
	NEXT	TASK	
41a	SET	NOCOUNT = 0	
	ITERATE	Q, 12, 14	
	GOTO	block41b IF ISR_QUESTION(Q, TASK) = 1	
	SET	NOCOUNT = NOCOUNT + 1	
	SET	WHICH = Q	
41b	NEXT	Q	
	GOTO	block45a IF NOCCUNT > 1	
	CALL	INTROa	****SUBROUTINE CALL
	Show	(text41b)	
		128	

(text38a) EQUIPMENT AVAILABLE AT UNIT?

Is the equipment required for individual training of this task in the unit available at most units?

Can you realistically change your "NO" response to a "YES" response?

(text38b) SUPERVISION AVAILABLE AT UNIT?

Are personnel with the necessary expertise available at most units to conduct the training for this task?

Can you realistically change your "NO" response to a "Y $^{\rm TO4}$ response?

(text38c) TIME TO TRAIN AVAILABLE AT UNIT?

Do operational requirements at most units allow sufficient time for the soldier to be trained in the unit?

Can you realistically change your "NO" response to a "YES" response?

(text41b) Please reevaluate the following question with respect to task

/\$TASKCODE(TASK)/:

No. California



BLOCK	COMMAND	TAG	COMMENTS
41c	GOTO	block42a IF WHICH = 12	
	GOTO	block42b IF WHICH = 13	
	GOTO	block42c IF WHICH = 14	
42a	SHOW	(text42a)	
	goto	block43a	
42ъ	SHOW	(text42b)	
	GOTO	block43a	
42c	SHOW	(text42c)	
43a	DECIDE	block44a, block45a	
44a	SET	SETTING(TASK) = 3	
	SET	ISR_QUESTION(WHICH, TASK) = -1	****INDICATE CHANGED ANSWER
	NEXT	TASK	
45a	SET	SETTING(TASK) = 1	
	NEXT	TASK	
		130	

k

a start and a start of the star

(text42a) LITTLE SUPERVISION REQUIRED?

والمتعادية والمستحدية

· · · · · ·

1

Can this task be learned with very little supervision (i.e., can the soldier learn the task through self-study)?

Can you realistically change your "NO" response to a "YES" response?

(text42b) TIME TO STUDY AVAILABLE?

Does the soldier's schedule allow sufficient time for independent study?

Can you realistically change your "NO" response to a "YES" response?

(text42c) LESSONS/EQUIPMENT EXPORTABLE?

Can everything required for training (which is not already available in the field) be included in the training package and is it inexpensively exportable?

Can you realistically change your "NO" response to a "YES" response?

-



;

BLOCK	COMMAND	TAG	COMMENTS
46 a	SHOW	(text46a)	
	Showb	Guide reference page 11.	
	WAIT		
46b	ITERATE	S, 1, 3	****Go through loop for each
	GOTO	block46c IFS = 1	instructional setting.
	GOTO	block46f IFS = 2	
	GOTO	block46j IFS = 3	
46c	SHOW	(text46c)	
	WAIT		
66.3	SHOW	(text46d)	
	WAIT	block46c	
46e	Show	(text46e)	
	SHOWB	Guide reference page 11.	
	WAIT	block46d	
	GOTO	block46m	
	. *	132	

(text46a) We will now review the initial instructional setting for each task.

#PRESS NEXT#

- (text46c) For each task initially assigned to the Institution, consider any reason why the task should <u>NOT</u> be trained in a school setting. Following are <u>examples</u> of questions you might want to ask as you review each task:
 - Do feedback from the field or SQT results indicate that an Institutional setting has proven ineffective for any of these tasks?
 - Are appropriate cues or stimuli <u>not</u> available in the school for any task?

#PRESS NEXT# for more example questions.

- (text46d) Are skilled instructors available for teaching the task in the school?
 - Is time and money available for training the task in the school?
 - Are there any job factors unique to this MOS which would cause you to change this instructional setting?
 - Will new equipment/simulators soon to be available cause to change this setting?

You may have other reasons why the task should not be taught at the institution. Consider each reason carefully.

#PRESS NEXT#

(text46e) If you decide that an institutional setting is unsuitable, review questions 7 through 14 on the ISR Sheet to determine if the task can be assigned to SOJT or Self-study. If necessary, consult with other subject matter experts or your supervisor to arrive at a suitable instructional setting for the task.

#PRESS NEXT#

and the second second

BLOCK	COMMAND	TAG	COMMENTS
46f	Show	(text46f)	
	WAIT		
46g	SHOW	(text46g)	
	WAIT	block46f	
46h	Show	(text46h)	
	WAIT	block46g	والمستعمل والمراجع المراجع المراجع المراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والم
461	SHOW	(text46i)	
	SHOWB	Guide reference page 11.	
	WAIT	block46h	
	GOTO	block46m	
		134	
1			

(text46f) For each task initially assigned to SOJT, consider any reason why the task should <u>NOT</u> be trained in that setting. Following are <u>examples</u> of questions you might want to ask as you review each task.

#PRESS NEXT#

- (text46g) Do feedback from the field or SQT results indicate that a SOJT setting has proven ineffective for any of these tasks?
 - Is the environment too hazardous for training this task in the field? For example, would errors made during training in a field environment be critical to the student, to others, or to equipment?
 - Will new equipment/simulators soon to be available cause you to change this setting?

#PRESS NEXT# for more questions.

- (text46h) Do "percentage performing" figures indicate that fewer soldiers are performing this task than should be? If so, does the percent which should be performing meet the criterion for high task performance and, therefore, consideration for Institutional training?
 - Are there any job factors unique to this MOS which would cause you to change this instructional setting?

You may have other reasons why the task should not be taught by SOJT. Consider each reason carefully.

#PRESS NEXT#

(text46i) If you decide that a SOJT instructional setting is unsuitable, review all of the questions on the ISR Sheet to determine if the task should be assigned to an Institutional or Self-study instructional setting. If necessary, consult with other subject matter experts or your supervisor to arrive at a suitable instructional setting for the task.

#PRESS NEXT#

BLOCK	COMMAND	TAG	COMMENTS
46j	Show	(text46j)	
	WAIT		
46k	Show	(text46k)	
	WAIT	block46j	
46m	SHOW	(text46m)	
	SHOWB	Guide reference page 12.	
	WAIT	block46k	
46n	ITERATE	TASK, 1, NUMBER_OF_TASKS	
	goto	block48f IF SETTING(TASK) = S	
	,		
		127	
		<u>961</u>	
1			

- and the set

- (text46j) For each task initially assigned to Self-study, consider any reason why the task should <u>NOT</u> be learned in this setting. Following are <u>examples</u> of questions you might want to ask as you review each task:
 - Do feedback from the field or SQT results indicate that a Self-study setting has proven ineffective for any of these tasks?
 - Will new equipment/simulators soon to be available cause you to change the setting?

#PRESS NEXT# for more questions.

- (text46k)
- Do "percentage performing" figures indicate that fewer soldiers are performing this task than should be? If so, does the percent which <u>should</u> be performing meet the criterion for high task performance and, therefore, consideration for Institutional training?
 - Would the percent performing figure change radically during mobilization? Would the task then become a candidate for training in the Institution.
 - Are there any job factors unique to this MOS which would cause you to change this instructional setting?

You may have other reasons why the task should not be taught by Self-study. Consider each reason carefully.

#PRESS NEXT#

(text46m) If you decide that a Self-study instructional setting is unsuitable, refer to the Supplemental Guide to determine if the task should be assigned to an Institutional or SOJT instructional setting. If necessary, consult with other subject matter experts or your supervisor to arrive at a suitable instructional setting for the task.

#PRESS NEXT#

- THE PARTY OF



BLOCK	COMMAND	TAG	COMMENTS
47 a	SHOW	(text47a)	
	DECIDE	block48a, block48e	
48a	Show	(text48a)	
	ACCEPT	NEW_S, 1, 3	
	GOTO	block48c, IF S = NEW_S	
48Ъ	Show	(text48b)	
	WAIT	block47a	
	GOTO	block47a	
		138	
-	-	1	

(text47a) TASK /\$TASKCODE(TASK)/

Has been initially assigned to /\$INSTR_SETTING(S)/.

Is there any reason to change this assignment?

(text48a) Type the number that corresponds to the new instructional setting for /\$TASKCODE(TASK)/.

Then #PRESS NEXT#.

- 1 INSTITUTION
- 2 SOJT
- 3 SELF-STUDY
- (text48b) Your selection is the same as the current instructional setting.

#PRESS NEXT#

And the state days in the second second

BLOCK	COMMAND	TAG	COMMENTS
48c	SET	FSETTING(TASK) = NEW_S	
	SHOW	(text48c)	
	WAIT	(Block48d)	
	GOTO	block48f	
48d	SHOW	(text48d1)	
	WAIT		
	Show	(text48d2)	
	WAIT		
	SHOW	(text48d3)	
	WAIT		
	GOTO	block48f	
48e	SET	FSETTING(TASK) = SETTING(TASK)	
48f	NEXT	TASK	
	NEXT	S	
	goto	block49a	
		140	

- Other States President

(task48c) REMEMBER . . .

It is important that you document the task ID number and the reason for changing the instructional setting. There is a place for this on the back of the ISR Sheet which can be obtained from your supervisor.

#PRESS HELP# for information on preparing comments for others.

#PRESS NEXT# to continue.

(text48d1) In order for the Instructional Systems Development process to work effectively, it is imperative that there be <u>forward and backward</u> communication between the people involved in the process. At some time or other, you have probably complained about the input that has been provided to you. For example, you may have thought that other tasks should have been included in the critical task listing, or that the job performance measures were incomplete or inaccurate. Sometimes, you may have had to do work that should have been preformed in previous steps.

#PRESS NEXT#

> In your research for this step of the Instructional Systems Development process, you may have discovered additional information that you think may be useful to people who will be working in steps that follow this one. If so, it is equally important that you pass this information on to appropriate people.

#PRESS NEXT#

- (text48d3) REMEMBER, COMMUNICATION WITHIN THE INSTRUCTIONAL SYSTEMS DEVELOPMENT PROCESS IS CRITICAL FOR EFFECTIVE INSTRUCTIONAL DEVELOPMENT.
 - A copy of the ISD CCORDINATION SHEET can be obtained from your supervisor. Make sufficient copies to enable you to send one to every individual you wish to communicate with-plus copies for your records.
 - Complete the ISD COORDINATION SHEET in duplicate. Send one copy to the individual and attach one copy to the Instructional Settings Package (ISR Sheets).

#PRESS NEXT#

BLOCK	COMMAND	TAG	COMMENTS
INTROa	goto	INTROC IF FIRST_TIME > 0	****Subroutine to display introductory material the
	SET	FIRST_TIME = 1	rirst time through the loop.
	SHOW	(text INTROa)	
	WAIT		
INTROD	SHOW	(text INTROb)	
	WAIT		
INTROc	RETURN		
		142	

(text introa) Next, you will review the tasks that have not been assigned to an instructional setting.

To do this, you will reevaluate the "NO" responses to determine if your initial judgment was correct. However, it is important that you DO NOT change your "NO" response unless you definitely think there is a legitimate basis for changing it to "YES."

#PRESS NEXT#

(text introb) For example, when you recorded a "NO" response to a question, such as "equipment needed for training is not available in the unit," you may have been in doubt about your answer. If so, check with your supervisor, a new sample of recent job incumbents, or other subject matter experts to determine if your initial judgment was correct.

#PRESS NEXT#

and the state of the second state of the

Indein orther and



BLOC	к	COMMAND	TAG	COMMENTS
494	a	STOP		****See attached memorandum, Guidelines for Producing Results of I.5 in hardcopy.
			144	

This memorandum documents the requirement for a hardcopy printout of the Instructional Setting Recording Sheet information, based upon the data collected during execution of the Job Aid I.5 program. The variables and arrays that correspond to each section of the ISR Sheet are written on the attached sample.

1

State State

TASKS PERFORMED BY SPECIFIC DUTY POSITIONS

IF ISR_DUTY (DP,TASK) = 1 PUT "X" IN APPROPRIATE CELL IF ISR_DUTY (DP,TASK) = Ø LEAVE CELL BLANK

PERCENT PERFORMING

ISR_%(1) . . . TO ISR % (NUMBER_OF_TASKS)
TEST ISR % (1) ISR % (NUMBER_OF_TASKS)
IF ISR % (N) = 1 THEN HIGHLIGHT
ISR % (N) AS AN ESTIMATE (e.g., put an asterisk beside it).
IF ISR % (N) = Ø LEAVE ISR % (N) AS IS.

QUESTIONS 1 THROUGH 14

ISR_QUESTION (1, 1) TO ISR_QUESTION(14, NUMBER_OF_TASKS)

IF ISR-QUESTION (Q, TASK) = 1 THEN RECORD "Y" IN THE APPROPRIATE CELL

IF ISR-QUESTION (Q,TASK) = -1 THEN RECORD "Y" AND HIGHLIGHT IT BECAUSE IT HAS BEEN CHANGED FROM A 'NO' TO A 'YES'. THIS WILL ONLY BE POSSIBLE ON QUESTIONS 9 THROUGH 14.

IF ISR QUESTION (Q, TASK) = ϕ THEN RECORD "N" IN THE CELL.

IF ISR_QUESTION (Q,TASK) = [INITIAL] THEN LEAVE THE CELL BLANK (99 IN OUR CASE). (This array should be initialized to a value at the beginning of the program.)

INSTRUCTIONAL SELLING

FSETTING(1) . . . TO FSETTING(NUMBER OF TASKS)

- IF FSETTING (TASK) = 1 THEN PUT AN "X" IN APPROPRIATE COLUMN IN INSTITUTION ROW.
- IF FSETTING(TASK) = 2 THEN PUT AN "X" IN APPROPRIATE COLUMN IN SOJT ROW.
- IF FSETTING (TASK) = 3 THEN PUT AN "X" IN APPROPRIATE COLUMN IN SELF-STUDY ROW.
- IF FSETTING(TASK) = SETTING (TASK) THEN YOU ARE FINISHED.
- IF FSETTING(TASK) # SETT (TASK) THEN PUT AN "X" IN APPROPRIATE COLUMN AND ROW (ROW 1 ^. 01 3)NDING ON THE VALUE OF SETTING(TASK). HIGHLIGHT THIS ENTRY SINCE IT WAS THE INITIAL SETTING SELECTED.