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ABSTRACT

This Programming Design Guide (PDG), was developed to permit the offline Job Aid for Selecting Instructional Setting, which is one of 13 job aids presently available for use with the. Instructional Systems Development (ISD) model, to be available in an inquiry-type, online version. It is intended to provide computer programmers with all of the guidance necessary for them to implement the offline job aid on their computer system. The resulting online program is designed for use by instructional development personnel to assist in the-selection of the appropriate instructional setting for each critical task within a Military Occupational Specialty (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 PDL is a pseudo-computer language which is used to describe the design specification for an interactive computer program to assist in the selection of instructional settings. (Author/LLS)

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RESEARCH PRODUCT 80-24b

PROGRAMMING DESIGN GUIDE FOR COMPUTER IMPLEMENTATION OF JOB AID FOR SELECTING INSTRUCTIONAL SETTING

BASIC SKILLS INSTRUCTIONAL SYSTEMS TECHNICAL AREA

DECEMBER 1979



U.S. ARMY RESEARCH INSTITUTE for the BEHAVIORAL and SOCIAL SCHENGES

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

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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 of 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 M. Joseph P. Severo, Research Facilities Support Group are acknowledged. Mr. Antonio J. Alameda, HumRRO also contributed to this research effort.

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

JOSEPH ZEIDNER
Technical Director

PROGRAMMING DESIGN GUIDE FOR COMPUTER IMPLEMENTATION OF JOB AID FOR SELECTING INSTRUCTIONAL SETTING

BRIEF



The purpose was to develop a language to translate an existing paper and pencil Job 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:

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

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Section'I

INTRODUCTION

Job Aids are being developed for the US Army Research Institute for the Behavioral and Social Sciences under contract DAHG19-78-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.

Schulz, R.E. and Farrell, J.R. <u>Job aids: Descriptive authoring flow-charts for phase I-analyze of the Instructional Systems Development model</u> (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. <u>Job aids: Descriptive authoring flow-charts for phase II-design of Instructional Systems Development model</u> (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. <u>Job aids: Descriptive authoring flow-charts for phase III-develop of the Instructional Systems Development model</u> (Research Product 80-17). Alexandria, VA: US Army Research Institute, May 1980.

Schulz, R.E. and Farrell, J.R. <u>Job aid manuals for phase III-develop of the Instructional Systems Development model</u> (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

SECTION II: Programming Design Language. This section describes the commands used in the Guide and provides guidance and examples of how each is used.

SECTION III: Programming Flowchart. 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 RDC. 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: Setup Material. 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 Ald.

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. 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.

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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/

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." $\mbox{\ }^{\bullet}$

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"

Array Deckarations 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.

Examples

ARRAY ISR-Question (14,24)

ARRAY XYZ (10) ·

****specifies an array of 14 rows with 24 columns per row.

****specifies a vector of 10 elements

\$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

\$STRING \$NAME; 30 ****specifies a string of up to 30 characters

\$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

SET
$$X = 12$$

SET
$$X = Y + 3$$
.

$$\dot{S}ET'Y = 3 * 2$$

\$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

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 STOP to halt processing.

GOTO label ' 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:

Examples

GO TO BLOCK 12

GO TO BLOCK 12 IF COUNT = 19

GO TO BLOCK 12 IF COUNT > MAXCOUNT

GO TO BLOCK 12 IF \$NAME = "FRED"

GO TO BLOCK 12 IF \$NAME = \$NAME2



ON varname GOTO 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

ON X GOTO BLOCK3, BLOCK4, BLOCK5, BLOCK6

STOP-

The STOP command terminates a PDL program.

CÀLL label

RETUŔN[®] .

The CALL command jumps program control to subroutine.

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

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

****J will be 1, 3, 5, 7 and 9 during five loop passes.

NEXT J



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.



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 |

SHOW This is a sentence.

.SHOW The value of variable fred is /fred/

SHOW' (text1)

****textl is the label associated with a block of text



SHOWB text

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

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.

Keyboard Input

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

WAIT

WAIT BLOCK7

WAIT BLOCK7, (advice text)

WAIT / , (advice text)

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

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.

Examplès |

SHOW What percentage of soldiers perform this task?

ACCEPT Perform-Percentage , 1 , 100 , Block 4

ACCEPT AGE, 1 , 200 , , (Hint)

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

\$ACCEPT \$NAME, 30

· \$ACCEPT \$MOS , 20 , , (moshelp).

\$ACCEPT \$NAMES(1), MAXNAME



DECIDE yeslabel, nolabel [,backlabel] [,(helptext label [,clear])]

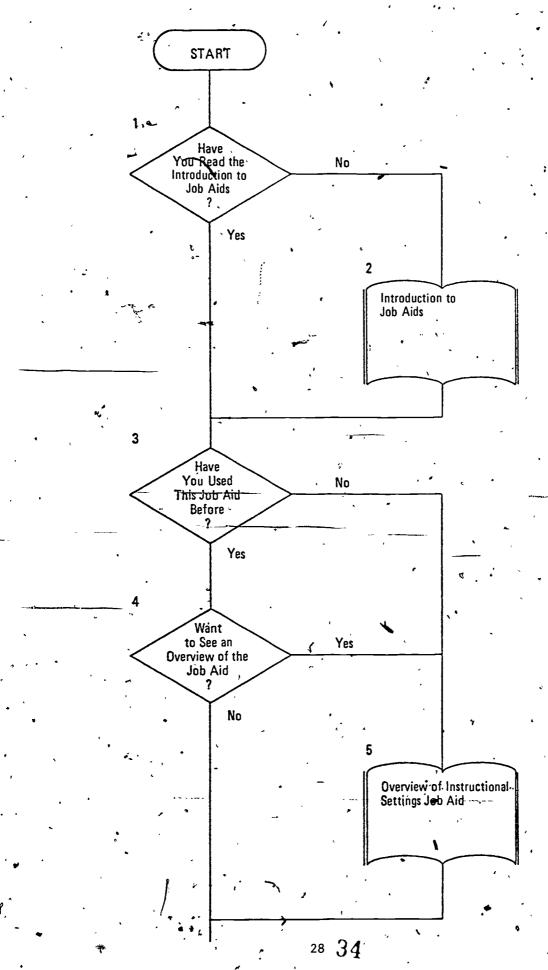
The DECIDE command is used when a yes or no response is expected from the user. A response of yes or no causes control to transfer to the corresponding label. If neither response is made, a prompting message is given to the user. The arguments "backlabel" and "helptext label" are used as documented for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

Examples .

DECIDE DOIT, SKIPIT, REVIEWIT, (ADVISEUSER)

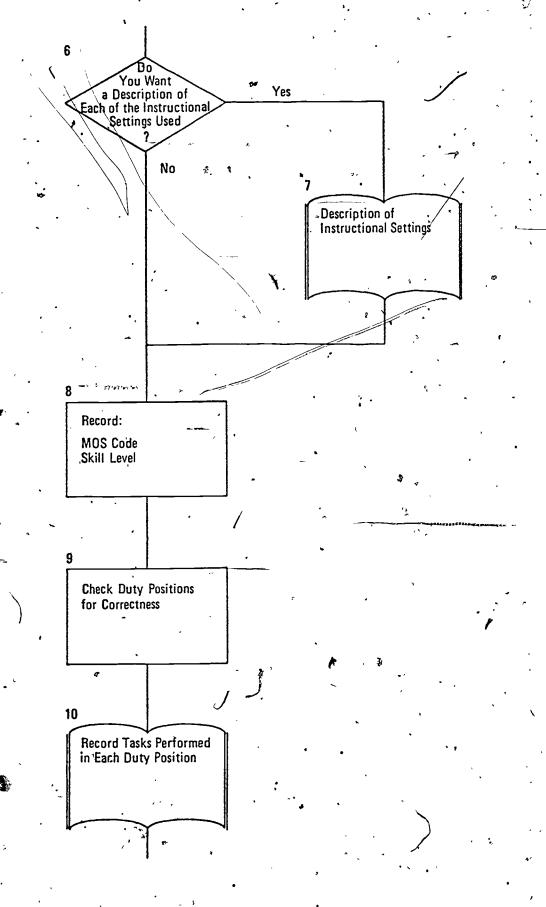
DECIDE OK, NO

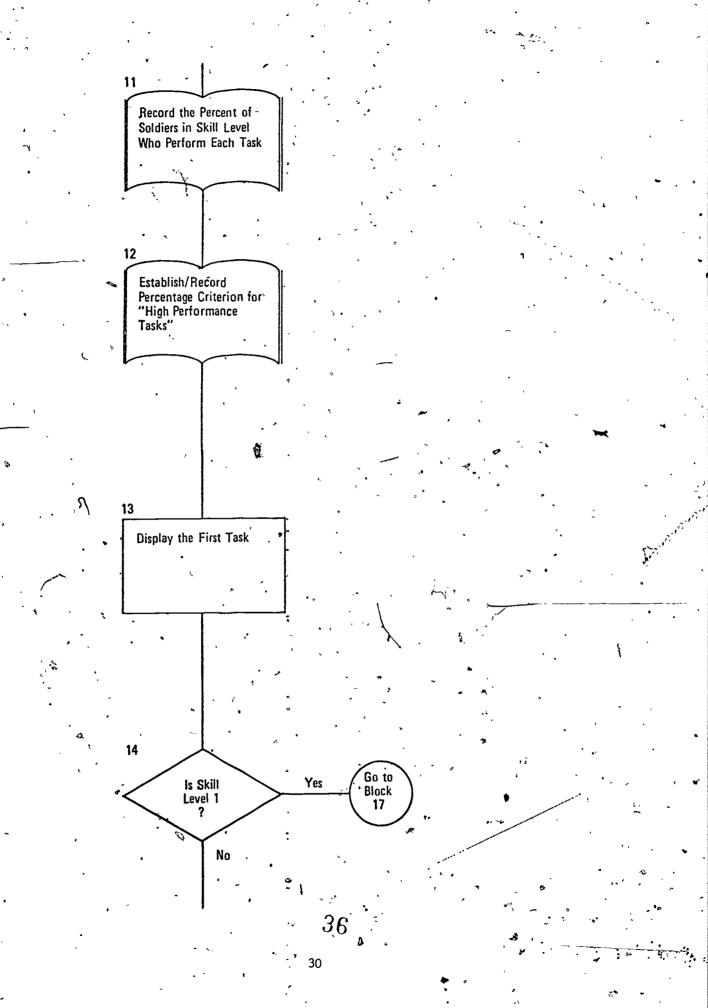
Section III PROGRAMMING FLOWCHART

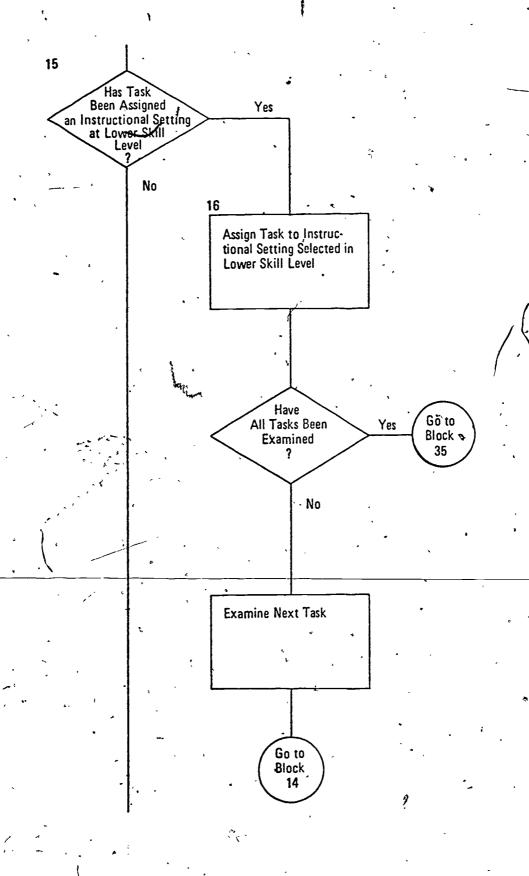


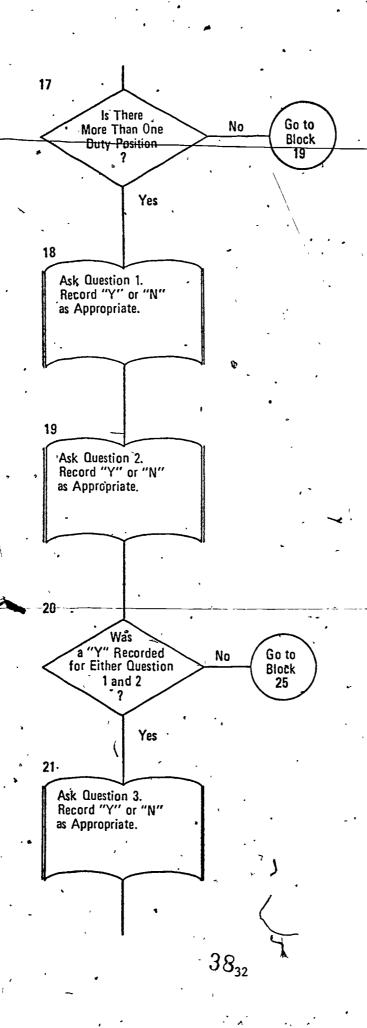
ERIC

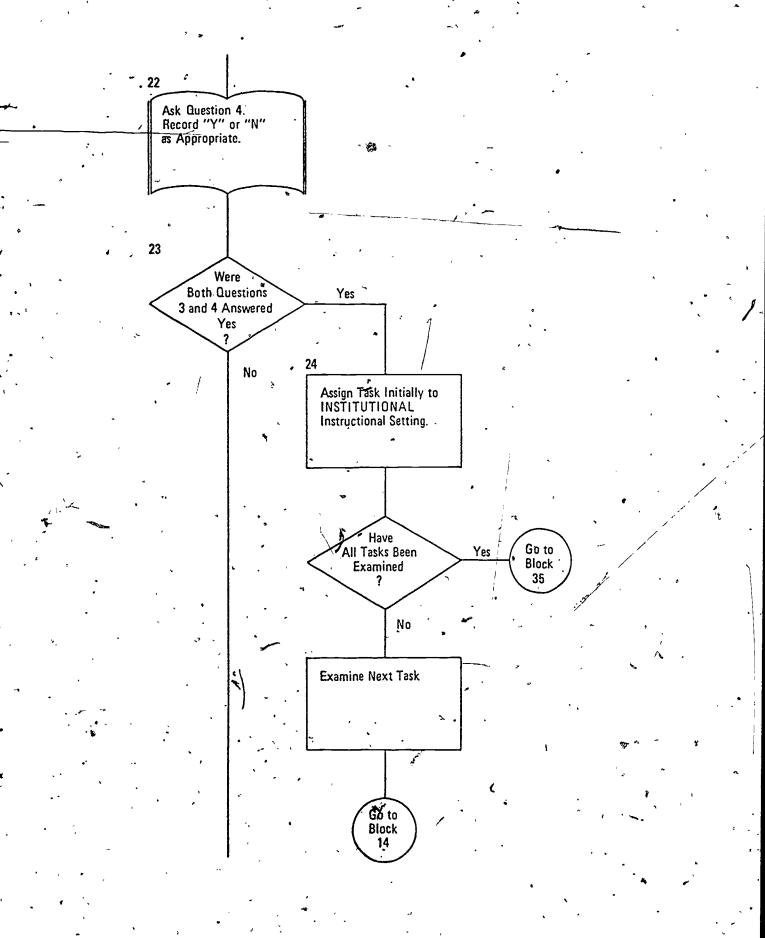
Full Text Provided by ERIC

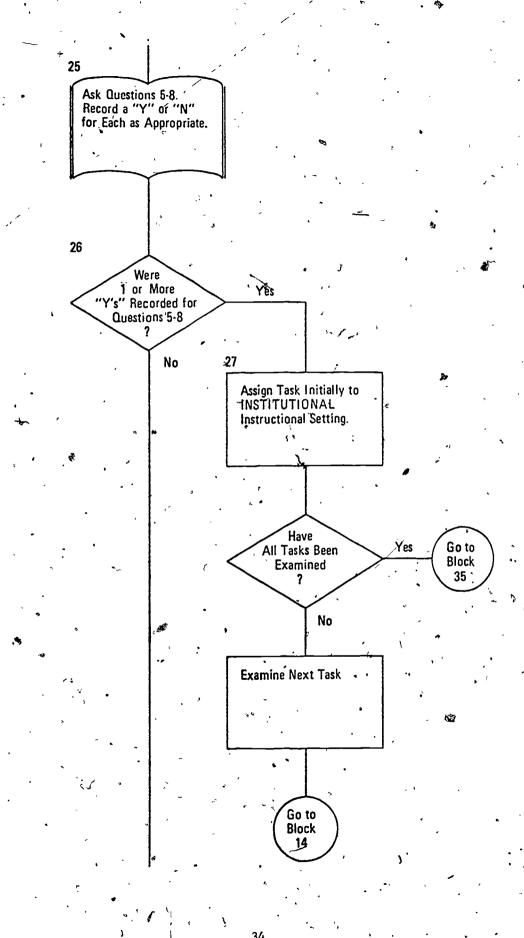


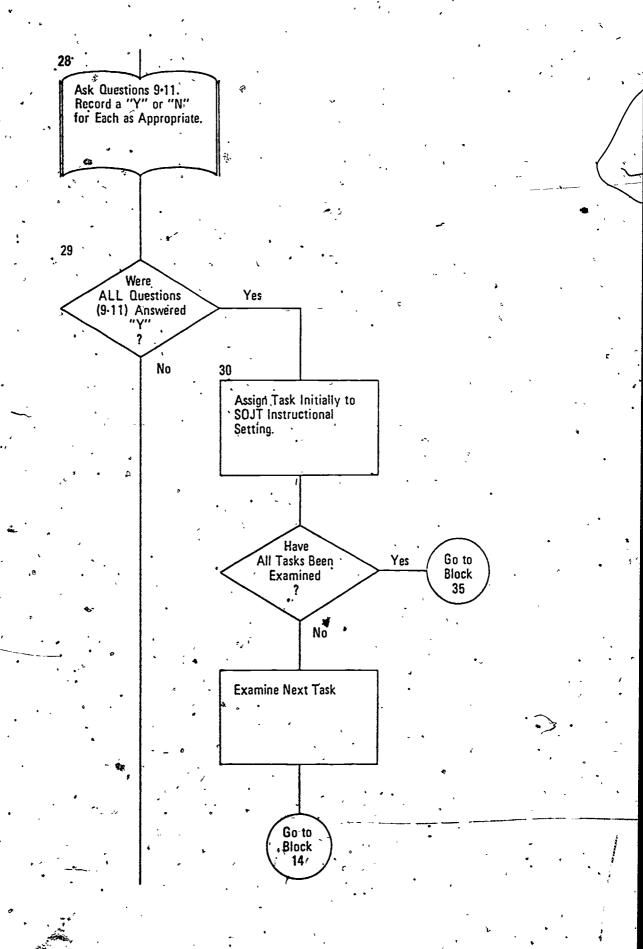


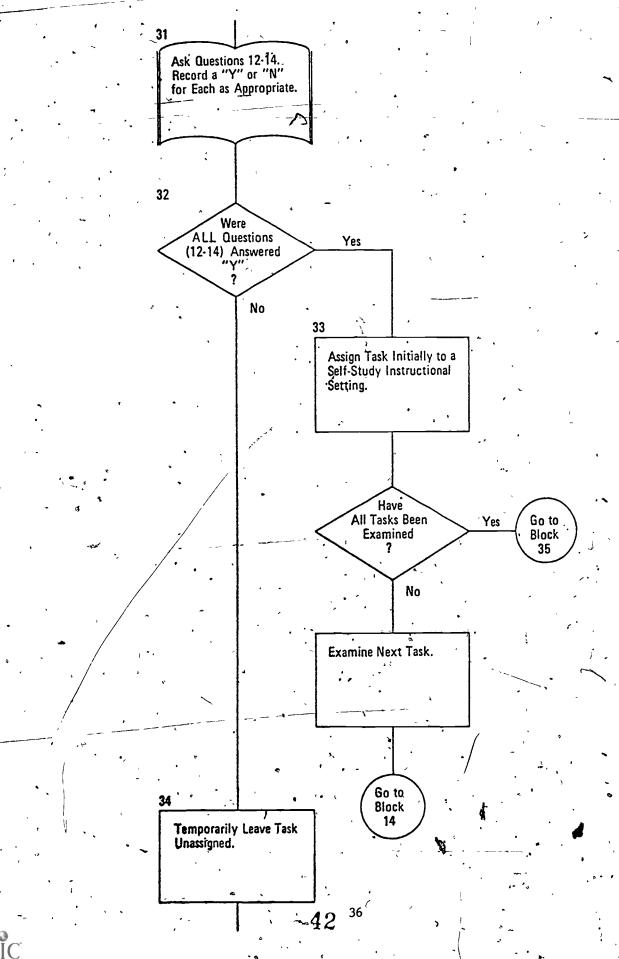






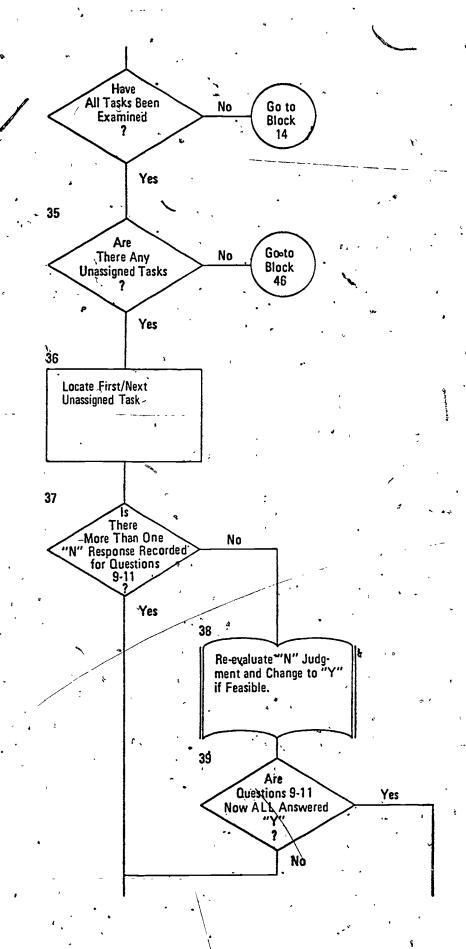


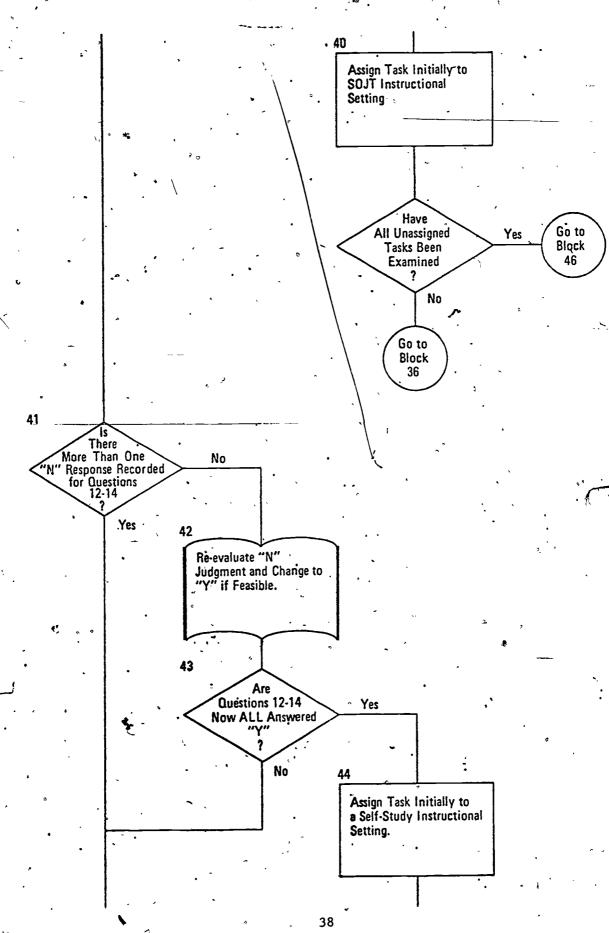


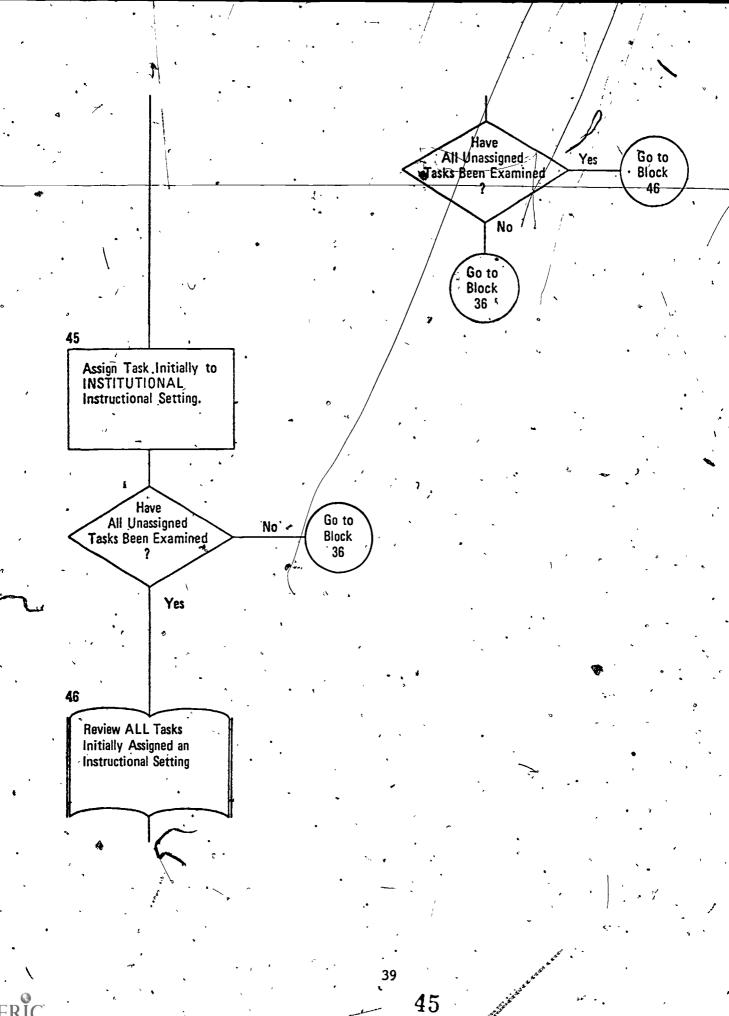


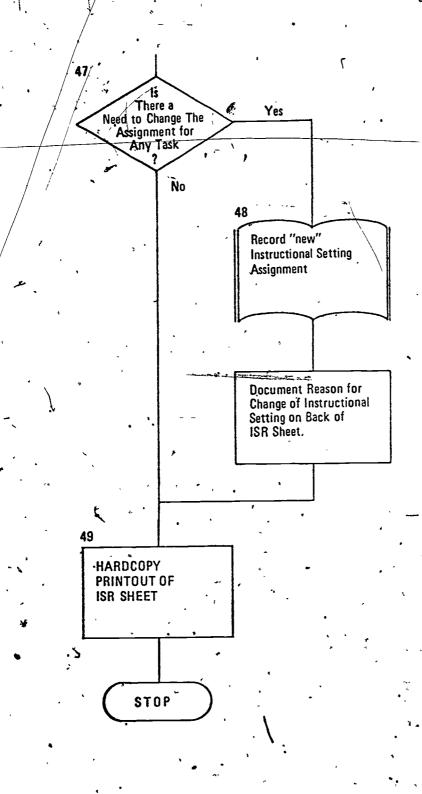
ERIC

Full Text Provided by ERIC









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.

\$DUTYCODE

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.

DUTYCODE MAXIMUM

A numeric variable which defines the maximum number of alphanumeric characters that can make up a duty position title:

\$ESTIMATE

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.



SINSTR SETTING (3.20)

An alphanumeric array of 3 variables each of which contains one of the instructional settings.

"Institution" SINSTR-SETTING(1)

"S 0 J T" (supervised on-\$INSTR-SETTING(2) the-job training)

\$INSTR-SETTING(3) = "Self-study"

An array of/numeric variables used to store the actual (as opposed to estimated) percentages of soldiers who perform given tasks.

An array of numeric variables used to store the estimated (as opposed to actual) percentages of soldiers who perform the given tasks.

ISR DUTY

An array of numeric variables used to store which tasks are performed by each duty position.

ISR QUESTION

An array of numeric variables used for recording the 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.

MAXIMUM TASKS

A, numeric variable which defines the maximum number of tasks that can be included in the program.

\$MOS CODE

An alphanumeric variable used to store an MOS. 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.

Counter for Reeping track of which questions are being examined.

Counter for keeping track of which instructional setting is being reviewed.

SETTING

An array of numeric variables used to store, by task, the initial designations of instructional settings. The numbers stored will be a 1, 2, or 3.

\$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

WHÎ CH

Variable that holds the number of the specific question being re-evaluated.

Section V

SETUP MATERIAL

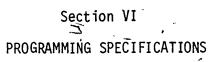
To facilitate the programming of the computer version of the Job Aid for Selecting Instructional Settings, it is necessary that you first program (in your programming language) setup material. A guide for the necessary setup material is shown below. You must, of course, establish your own value for MAXIMUM 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	DUTYJODE MAXIMUM = 30	
\$STRING	\$TASKCODE(MAXIMUM TASKS),	TASKCODE MAXIMUM ^
\$STRING		SITIONS), DUTYCODE MAXIMUM
\$STRING -		OSITIONS, DUTY CODE MAXIMUM)
\$STRING	\$MOSCODE,10	
ARRAY	ISR DUTY (MAXIMUM DUTY POS	ITIONS.MAXIMUM TASKS)
ARRAY	ISR%(MAXIMUM TASKS)	
ARRAY	ISR% E(MAXIMUM TAŠKS)	•
ARRAY	SETTING (MAXIMUM TASKS)	
°ARRAY «•	FSETTINGS (MAXIMUM TASKS)	
ARRAY 👡	ISR QUESTION (14 MAXIMUM T	ASKS)
\$STRING	SINSTR SETTING(3);20	•
\$SET	\$INSTR SETTING(1) = "INST	TITUTIONAL"-
\$SET	\$INSTR SETTING(2) = "S O	
\$SET	\$INSTR SETTING(3) = "SELF	'STUDY"
SET	NUMBER OF TASKS = 24	
•		onth'.
\$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
	, · · · · · · · · · · · · · · · · · · ·	*
\$SĒT	$\$TASKCODE(3) = 587-\cancel{0}032$	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
,	4 11m100m(11) 30, 10m1	AN/VRC-46 in a Tracked Vehicle
	,	IM, The to the a flacked tender

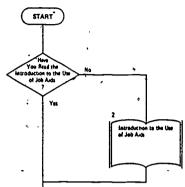


\$SÉT		NUMBER OF DUTY POSITIONS = 2	•
\$SET		\$DUTYCODE(1) = Support Mechanic	-
\$s⁄eţ		\$DUTYCODE(2) = Special Forces Mechani	ic
	•		

\$SET \$DUTYCODE(n) =





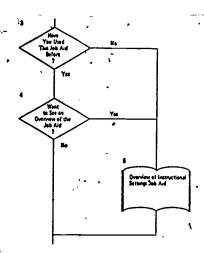


BLOCK	COMMAND	t TAG	COMMENTS		
lá	SHOW	Have you read the Introduction to the Job Aids?			
^	DECIDE	block3a, block2a	•		
2a	SHOW	(text2a)			
	WAIT	blockla			

The Introduction to the Job Aids is presently contained in Chapter I of the booklet, Supplemental Guide: Sources Information for On-Line Implementation of ISD I.5 Select Instructional Setting, 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.



вьоск	COMMAND	TAG ,	. COMMENTS
. 3a	SHOW DECIDE.	Have you used this Job Aid before? Enter Y or N. If you want to see a previous display, enter B (for BACK). block4a, block5a, blockfa	1
4a 	SHOW .	Do you want to see an overview of the Job Aid and instruction in using this computer program?	
·	DECIDE .	block5a, block6a, block3a	<u>,</u>
5a . ∕ •	SHOW .	(text5a) block3a	
5b	SHOW - WAIT	błock5a	***programmerprovide instruction (text) for sign- ing on and off your system.
5c	- SHOW WAIT	(text5c)	
5d	SHOW WAIT	(text5d) block5c	, , ,
5e	SHOW	text5e block5d	
5£ ^	1	block5e	***programmerprovide instruction (text) for - answering questions.
- ,		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)

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)	v ·			
* .	WAIT	block5f	3 .			
· 5h	SHOW	Would you like to review the instruction on using this program?	•			
	DECIDE	block5a, block5i, block5g				
51	SHOW	#PRESS NEXT# for an overview of the Instructional Settings Job Aid				
	SHOWB	Guide reference pages 3-4.				
	WAIT .	block5h	,			
5j ° °	SHOWB	(text5j)	,			
ŋ	WAIT	block5i				
5k	SHOWB	(textk)				
. ,	WAIT	block5j	, ,			
5m	SHOWB	(text5m)				
•	WAIT ·	block5k .				
•						
,	, ,		, ,			

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(text5g)

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 .

- 1. 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.

вьоск	COMMAND	• TAG	COMMENTS
5n	SHOW	(text5n)	
	WAIT	block5n	• 1
50	SHOW	(text50)	•
	WAIT	block5n	
5p	SHOW	(text5p)	
	WAIT	block5o	
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	·	545.9	

- (text5n) OVERVIEW OF MAJOR STEPS IN SELECTING INSTRUCTIONAL SETTING
 - Step 1. Task's 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)

- (text5o) OVERVIEW OF MAJOR STEPS IN SELECTING INSTRUCTIONAL SETTING (Continued)
 - Step 3. Initial 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 a duty positions and units?

(Continued)

- (text5p) OVERVIEW OF MAJOR STEPS IN SELECTING INSTRUCTIONAL 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)

	0	• (- 1	*
вьоск	COMMAND	* TAG	COMMENTS .
5q,	SHOW	(text5q)	
	WAIT	block5p .	
5r	SHOW	(text5r)	•
,	WAIT	block5q	·
, 5s	SHOW	(text5s)	
,	WAIT	block5r	•
•			, ,
		1	
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•	,		
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7			
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(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 sold er 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)	
q	WAIT	block5v	
5x	SHOW	(text5x)	
96. 111.	WAIT	block5w .	
5y "	SHOW	(text5y)	
	WAİT	block5x)	, ,
5z	SHOW	(text5z)	
	WAIT	block5y f	
5aa .∞	- SHOW	(text5aa) ,	
•	WAIT	block5z	4
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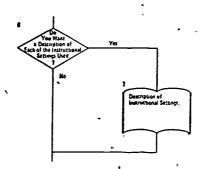
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- (text5t) OVERVIEW OF MAJOR/STEPS IN SELECTING INSTRUCTIONAL SETTING (Continued)
 - Step 4. Administrative review and final selection of instructional setting.

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 final selections of instructional settings is submitted to the supervisor for review and revision.





BLOCK	COMMAND	TAG	COMMENTS
5bb	SHOW	Would you like to review the over- view for this Job Aid again?	
•	SHOWB	Guide reference pages 3-4.	
ž.	- DECIDE	block5i, block6a	· · · · · · · ·
`6a '	SHOW	(text6a)	
	DECIDE	block7a; block8a, block4a	
%. 7a	SHOW	(text7a)	
•	SHOMB,	Guide reference pages 5-6.	,
•	WAIT	block6a .	
.7b	SHOW	(text7b)	
	WAIT	block7a ²	,
7c °	SHOW	(text7c)	,
, p	WĄĮT	block7b	'
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(text6a)

The instructional setting will often determine Noth 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?

(tex**1**75)

Institution(INST)

Training conducted at TRADOC resident schools and #hcludes:

OSUT - One Station Unit Training .

PNCOC - Primary Norcommissioned 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)	· a
	WAIT	block7c /	
7e	SHOW	(text7e)	
	. TIAW.	block7d.	**
	SHOW	(text7f)	•
	WATT	block/fe *	,
	SHOW	(text7g)	,
数	WAIT .	block7f	
	1		
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(text 7d)

Self-Study ~

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

- Self-teaching exportable packages (STEP) ..*
- Training Extension Courses
- Jøb Performance Aids
- Študy Guides
- Correspondence Courses
- '- Films, tapes, etc.

Little supervision required

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

 \bigcup (text 7f)

INSTITUTION '

- Ädvantages
- Usually best setting for training common skill level tasks or tasks that are performed by
- large percentage of soldiers in the MOS/skill o 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				cc	MMENTS	
7h,	SHOW	(text7h)		• * • • • •		•		
. "	WAIT	block7g						
71′	SHOW'	(text7i)	• `		,	r	F	
	WAIT	block7h		•				

(text7h)

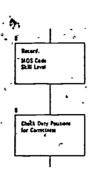
SELF-STUDY

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 considerableoff-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 Supplemental Guide: Source Information for On-Line Implementation of ISD I.5 Select Instructional Setting on page 6. (Hereafter referred to as Supplemental Guide.)



	3		<u></u>
. BLOCK	COMMAND	TAG •	COMMENTS
. 8a ∖	SHÔW	What MOS are you working with?	1
	\$ACCEPT	\$MOSCODE,10	
* 4	SHOW.	What is the skill level?	,
	ACCEPT	SKILE,1,4	
	SHOW	You are working with MOS /\$MOSCODE/ and the skill level is /SKILL/. . Is this correct?	
• •	DEG IDE	block9a, block8a, block6a	
9a	SHOW	(text9a)	
•	WAIT		· , ,
.9ь	ITERÁTE	DP , 1 , NUMBER OF DUTY POSITIONS	,
•	SHOW	Duty position /DP/ is /\$DUTYCODE(DP)/	designators onto terminal.
	, 6		The end product should be a list of duty position designators.
•	NEXT	DP .	
•	SHOW	Are these duty positions correct?	and the same of th
	DECIDE	block10a, block9c	
9c	SHOW WAIT	(text9c)	
• • •		71	- <i>y</i> -
• .	İ	•	1

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(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 ādditions, 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	•		
9e	ITERATE	DP, 1, NUMBER_OF_DUTY_POSITIONS	-		
,	\$SET	\$DUTYCODE2(DP) = \$DUTYCODE(DP)	****copy\$DUTYCODE's to \$DUTYCODE2		
<i>'</i> .	NEXT.	DP			
· . ~	SET · ·	DPNEW = 0	•		
` ,	ITERATE	DP, 1, NUMBER_OF_DUTY_POSITIONS	, a 1		
9f	SHOW	Duty position /DP/ is /\$DUTYCODE2(DP)/. Is this correct?			
•	DECIDE	block9i, block9g			
9g `	SHOW	Do you want to delete this duty position?			
	DECIDE	block9j, block9h			
9h	SHOW	Enter the correct duty position designation.			
	ACCEPT	sinputline, 100			
	\$SET	\$DUTYCODE2(DP) = \$INPUTLINE	,		
*	сото ·	block9f			
,	y	68	-		
•					

• .

BLOCK	COMMAND	TAG	COMMENTS
. 91	SET	DPNEW = DPNEW +1	,
م	\$SET	\$DUTYCODE(DPNEW) = \$DUTYCODE2(DP)	
9j	NEXT	_ DP.	
	SET .	NUMBER_OF_DUTY_POSITIONS = DPNEW	•
9k,	SHOW '	Afe there any additional duty position designations that should be added?	. , . , . ,
,	DECIDE	block9m, block9o	•
9m , `	сото .	block9n IF NUMBER_OF_DUTY_POSITIONS >	
		Enter a new duty position designa- tion.	•
,	SET	NUMBER_OF_DUTY_POSITIONS = NUMBER_OF_DUTY_POSITIONS +1	
	\$ACCEPT	sinputline, 100	
	\$SET .	<pre>\$DUTYCODE(NUMBER_OF_DUTY_POSITIONS) = \$INPUTLINE</pre>	\
, 9n	SHOW	There is no more space available for duty code designations.	
•	** + 2	#PRESS NEXT# to continue	
.•	WAIT		
90 "	SHOW	#PRESS NEXT# to see a corrected list of duty_position designations.	
, ,	WAIT	, , , , , , , , , , , , , , , , , , ,	
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		8	<u> </u>
BLOCK	ĆOMMAND	TAG	COMMENTS
9p	ITERATE	DP, 1, NUMBER_OF_DUTY_POSITIONS_	
,	SHOW	Duty position /DP/ is /\$DUTYCODE(DP)/	****roll on all duty position designators onto terminal. The end product should be a list of duty position designators.
,	SHOW	Are these duty positions correct?	,
	DĖCIDE	block10a, block9e	
· 10a	SHOW	The next operation is to determine which tasks are performed in each duty position.	, ,
· 	ITERATE	TASK, 1, NUMBER_OF_TASKS	
10ь ,	·ITERATE	DP, 1, NUMBER OF DUTY POSITIONS	~
	SHOW	Does the /\$DUTYCODE(DP)/ perform this task:	,
	*	/\$TASKCODE(TASK)/	
10c	SET. COTO	ISR_DUTY(DP, TASK) = 1 - block10e	****indicate a "yes" response ****process the next duty position.
10d	SET	ISR_DUTY(DP,TASK) = 0	
	•	75	

ئد	BLOCK	COMMAND	TAG	COMMENTS
	10e	NEXT	DP	
		SHOW	(text10e)	****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.
	•	ITERATE	DP, 1, NUMBER_OF_DUTY_POSITIONS	Programmer should modify format to fit computer system.
		GOTO GOTO	blocklof IF ISR_DUTY(DP, TASK) = 1	•
	100		blocklog IF ISR_DUTY(DP, TASK) = 0	
	10£	SET * GOTO	\$PERFORMS = "yes" block10h	
. ,-	10g .	Sep	\$PERFORMS = "no"	
	10h	SHOW NEXT	(text10e) DP	****show only /DP/ & /\$PERFORMS/
	101	NEXT	TASK	
	r		74	

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

/\$TASKCODE(TASK)/

DUTY POS	PERFORMS		DUTY POS	PERFORMS
/DP/	, \$PERFORMS/	_	/DP/	/\$PERFORMS/

Refer to duty position listing

Record the Percent of Solders in Still Level Who Perform Each This

· · ·	•	· · ·	
BLOCK	COMMAND	TAG	COMMENTS
11a	SHOW	(textlla)	• ,
<i>y</i> ,	SHOWB	Guide reference page 7.	
	WAIT °	· · · · · · · · · · · · · · · · · · ·	
Hlb	SHOW	(text11b)	
` *`·	WAIT .	blocklla	
, 116	SHOW	(textllc)	
J	TIAW	block11b	
a, 179	SHOW	(text11d)	
· .	WAIT	block11c , ,	
, 11e	SHOW	(text11e)	K
	WAIT	blocklid	
			· • • • •
	1		

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7.5

(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.

(text[1b)

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 only 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.

(text11d)

PANEL OF RECENT. JOB INCUMBENTS 3.

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 *	COMMAND	, TAG	COMMENTS
11f	SHOW	(textllf)	3
•	SHOWB WAIT	Guide reference page 7. Slockllh	
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 SHOW	ISR_%(TASK), 1, 100 Is this percentage value an estimate (i.e., not CODAP or field survey results)?	
	DEC IDE	blocklli, blockllj, blockllh	· ,
4 11i	SET GOTO	ISR_%E(TASK) blockllk	****remember that it's an estimate
- 11j	SET	IRS_%E(TASK) = 0	****indicate an exact percentage
11k	, NEXT	TASK	
,	*(78.	•

Ø.

(textllf) As a <u>last</u> 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.



	т —		·
BLOCK	COMMAND	TAG.	. COMMENTS .
11m	SHOW	(text11m)	***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
•	COTO	blocklin IF ISR_%E(TASK) = 1	٠. ٠
·	GOTO	blockllo IF ISR_%E(TASK) = 0	٠. ٠
11n	SET	\$ESTIMATE = "Yes"	• •
	GOTO .	block11p	
11o ″	SET	\$ESTIMATE = "No"	,
11p+	SHOW	(textllp)	***textllp provides the data for the table set up in blockllm *
	NEXT	TASK	Tot the table set up in blocklim
·	DECIDE	blockllq, blockl2a, blockllg	, , , , ,
,			
•	*		
•	٠,	•	
	*	, ,	
,			•
•	, , , , , , , , , , , , , , , , , , ,	80 82	

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Do you want to respecify these percentages? (textlim)

	TASK	- %	ESTIMATE	TASK "	%	ESTIMATE '
ŕ	•		64.		i	
(textllp)	* .	**	***	' *	**	***
		~ .				~
٠	* `	° **	***	*	**	, ***
, , , , , , , , , , , , , , , , , , ,	* .	** »	., ***	*` .	**	***
	etc'	etc	etc	etc	etc	, etc
•	000,	100	,	•		

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

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

_			4
BLOCK	COMMAND	· TAG	COMMENTS
11q	ITERATE	TASK, 1, NUMBER_OF_TASKS	
	SHOW	(textllq)	,
•	ACCEPT	\$COMMAND, 1	,
	GO TO,	blockllr IF \$COMMAND = "Y"	,
	coro,	blockllu IF \$COMMAND = "N"	· ;
* *	οσπο .	block12a IF \$COMMAND = "F"	
lìr	SHOW -	What percentage of soldiers perform /\$TASKCODE(TASK)/?	
,	ACCEPT	IŞR %(TASK), 1, 100	, , , , , , , , , , , , , , , , , , , ,
. 1	SHOW	Is this percentage an estimate?	
4	DECIDE	blocklis, blocklit, blocklir	•
lls -	SET -	ISR_%E(TASK) = 1	•
	сото	block11u É	
. 11t	SET	ISR_ZE(TASK) = 0	,
11u `	NEXT	TASK	
٠,	GOTO -	block11m · _	, , , , ,
	•		, , , , , ,
		· ∫•	٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠, ٠
• ,	,	· 4.	
		84	
3			• .

ž. •

(text11q)

Percent Performing = /ISR_%(TASK)/

Do you want to change the percentage for task:

TASK

ESTIMATE

,/\$TASKCODE(TASK)/?

/\$ESTIMATE/?



•			
BLOCK	COMMAND	⇔ TAG	COMMENTS
12a	SHOW	(text12a)	
•	WAIT .	blockllm ^	
12b	ŚHOW	(text12b)	, , ,
<i>f</i> .	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	block13a, block12c, block12a	·
. ,	•		•
	•		,
1	,		
de let	. ,		
•			8
·		84 80	*

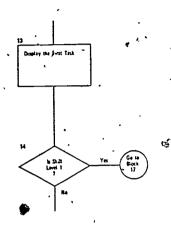
(text12a) Your next activity will be to establish the percentage criteria to use for classifying a task as a "high performance task."

"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.



•	BLOCK	ĈOMMAND	TAG .	COMMENTS
	,13a	SHOW	(textl3a)	
_	,	WAIT		
,•	136	SHOW	(text13b) or (text13b-alt)	****If only a part of the task description is stored, use textI3b-alt. Otherwise, use textI3b.
_	`	WAIT	block13a	
,	13c	SHOW ·	(text13c) block13b	,
-	13d (_*	SHOW ,	(text13d) block13a	
•	13e	ITERATE SET	TASK, 1, NUMBER_OF_TASKS SETTING(TASK) = 0	****indicates -that task is unassigned.
	113f	ITERATE*	Q, 1, 14	
•		ITERATE SET.	TASK, I, NUMBER_OF_TASKS. ' ISR_QUESTION (Q,TASK) = 99	
	* * * * * * * * * * * * * * * * * * * *	NEXT NEXT	TASK Q	
	14a	COTO	block17a IF SKILL ≠ 1	3
, g	1 *	,	86	
ERIC Full Text Provided by ERIC	* 1			

(text13a). We will now attempt to assign each task to a tentative instructional setting by asking certain questions. Questions are asked only 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.

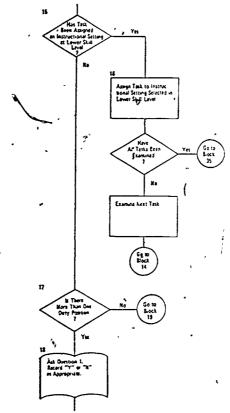
(text13b-alt) FIRST: You will be shown enough of the task so that you can identify it on your task list. At this same time, you will be shown the question and told what it is all about.

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.

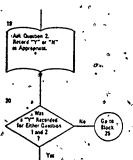
(task13d) 👯 #PRESS NEXT# for the first question.



вгоск	COMMAND	TAG	•	COMMENTS	* % *
15a	SHOW	/\$TASKCODE(TASK)/	,	•	
, , ,		Has the above task been assigned an instructional setting at a lower skill level?	,	•	•. •
* .	DECIDE	blocklýa, blockl7a			
. 16a	SHOW .	(text16a)	:	_	
	ACCEPT _	s, 1, 3		••	• •
. *	SET	SETTING(TASK) = S	٠.	•	
	GOTO .	block35a IF TASK = NUMBER_OF_TASKS	,	1	٤,
	SHOW	#PRESS NEXT# to examine the next task.		•	•
< · · · ·	NEXT	TASK		•	
	COTO	block39a IF NUMBER_OF_DUTY_POSITIONS		; 4	•
		= 1 • 88		,	· · · · · · · · · · · · · · · · · · ·
(a)	1 -	1	·	3	

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

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



<u> </u>		Yes , , ,	
BLOCK	COMMAND	, TAG	* COMMENTS
18a .	SET	ISR_QUESTION(1, TASK) = 0	****default to "ho"
, 2.	ITĒRATE.	DP, 1, NUMBER_OF_DUTY_POSITIONS * block19a IF ISR_DUTY(DP, TASK) = 0	
	NEXT SET	DP ISR QUESTION(1, TASK) = 1	****indicate "Y" for question 1.
19a	сото	block19b IF ISR_%(TASK) HP_CRITERION	
	SET	ISR_QUESTION(2, TASK) = 0	****Not a high performance task.
• •	GOTO ^	block20a	<u> </u>
19b	SET	ISR_QUESTION(2, TASK). = 1	****It is a high performance task.
`20a	SET	WORK = ISR_QUESTION(1, TASK) ISR_QUESTION(2, TASK)	4
zi,	GOTO .	block25a IF WORK = 0	
•			
* ************************************			
. Are			

The same of the	° • • • • • • • • • • • • • • • • • • •	Ald Overtion 1. Riverd "T" or "AP B Appropriate.
. RLOCK	COMMAND	TAG COMMENTS
21a	SHOW WAIT -	(text21a)
Žlb	SHOW SHOWB, - WAIT	(text21b) Guide reference page 7. block21a
21c	SHOW WAIT	(text21c) block21b
21d	SHOW WAIT	(text2ld) block2lc
. 21e	SHOW	block21d '
2,}rf	SHOW WAIT:	(text21f) block21e
21g	SHOW '	(text21g) block21f
		92

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(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 DECIDE	(text21h)	
211	SHOW SHOWB - DECIDE	(text211) Guide reference page 7 block21j, block21k, block21b	
21j	SET GOTO	ISR_QUESTION(3, TASK) = 1 block22a	
21k .	SET ,	<pre>ISR_QUESTION(3, TASK) = 0 ;</pre>	3
		,	
	<u> </u>		*

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

(text21i) ANSWER THIS QUESTION

· /\$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?



,	1		<u>~_</u>
BLOCK	COMMAND	TAG	COMMENTS
22a	SHOW	(text22a)	,
•	WAIT	block2la	,
- 22b,	sноw	(text22b)	,
•	SHOWES .	Guide reference page 8.	
· • •	WAIT	block22a	• • • •
22c	SHOW	(text22c)	
	WAIT	block22b	•
22å	SHOW	(text22d)	
•	WAIT ",	block22c	
22e `	SHOW	(text22e)	b
	WAIT	bÎoek22d	
22 f	SHOW	(text22f)	
, -,	WAIT -	block22e	,
22g	S HQW	(text22g)	•
	DECIDE	block22b, block22h	
22h*	SHOW .	(text22h) _ :. ·	•
,	SHOWB	Guide reference page 8.	,
	DECIDE .	block221, block22j, block22b	
	·		***************************************
	, ,	°. •,	
	.	97	
,		-7 /	



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(text22a) /\$TASKCQDE(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.

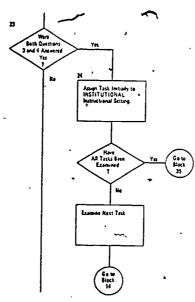
(text22b) The following are examples of factors to consider in answering this question:

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?



			•
BLOCK	COMMAND	TAG	COMMENTS
· 22i	SET	ISR_QUESTION(4, TASK) = 1	
	сото	block23a ·	
22 j	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.
•	· GOTO	block35a IF TASK = NUMBER_OF_TASKS	- ALL STON
	SHOW	#PRESS NEXT# to examine the next task.	
	NEXT	TASK	1
			,
] .		-



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	вгоск •	COMMAND	TAG COMMENTS
•	25a ,	SHOW	·(text25a)
		WAIT	
	25b	зно́м	(text25b) .
		showb *	Guide reference page 8.
	-	WAIT `	block25a
	25c 1	SHOW	(text25c)
	, 	WAIT	block25a
-	25d	SHOW	(text25d)
		WAIT	block25c
	25e	SHOW	(text25e)
		WAIT	block25d
	25 È	SHOW	(text25f)
_		DEC IDE	block25b, block25g
;	25g	SHOW	(text25g)
		SHOWB	Guide reference page 8.
	Ĵ	DEC IDE	block25h, block25i, block25b
	ĺ	·	
	.		\ \
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)	. !	ſ	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 INFORMAȚION (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(TASK)/

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



			<u> </u>
вгоск	COMMAND	TAG	COMMENTS
25h	SET	ISR_odestion(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	block25f	
2.5m	, SHOW	(text25m) °	
	WAIT	block25k	·
25n -	SHOW	(text25n)	
• • •	WAIT ,	block25m	·
250 🚓	SHOW	(text250)	
	DEC IDÉ	block25k, block25p	1
25p	SHOW	(text25p)	
	SHOWB	Guide reference page 9.	
	DECIDE .	block25q, block25r, block25k	
435			•
•	-		
•	, 3	102	,
		102	^
•	!		1

,

a

1

(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 Incurpents. 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.

(text25o) 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)?.



, 1 1	COMMENTS
25q SET ISR_QUESTION(6, TASK) = 1 GOTO block25s	
25r SET ISR_QUESTION(6, TASK) = 0	
25s SHOW (text25s) WAIT	,1
25t SHOW (text25t) WAIT block25s	
25u SHOW (text25u) DECIDE block25v, block25v, block25t	
25v SET ISR_QUESTION(7, TASK) = 1 block25x	•
25w SET ISR_QUESTION(7, TASK) = 0	<u> </u>
25x SHOW (text25x) SHOWB Guide reference page 9. WAIT	,
104	

(text25s) /\$TASKCODE(TASK)/

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 1 ,	COMMAND	TAG	COMMENTS
25y	SHOW	(text25y)	
•	WAIT	block25x	
25z	SHOW	(text25z)	÷ • • • • • • • • • • • • • • • • • • •
, ,	WAIT	block25y	· ·
25aa	SHOW .	(text25aa)	
	DECIDE	block25y, block25bb	
₹ 25bb	SHOW	(text25bb)	, , , ,
• `	SHOWB .	Guide reference page 9.	•
,	DECIDE	block25cc, block25dd, block25y	
25cc	SET	ISR_QUESTION(8,TASK) = 1 .	
, –	GOTO	block26a	ŷ. · · · · · · · · · · · · · · · · · · ·
25 d d	SET	isr_question(8, task) = 0 °	*h
	,		
	,	~ · ^λ *	,
		106	
· · · · · · · · · · · · · · · · · · ·	1	106	

(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) SO

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 selécting panel.

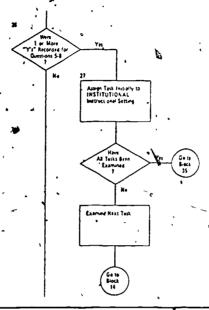
(text25aa) Do you want to review the sources of information before you answer the question?

(text25bb) ANSWER THIS QUESTION

/\$TASKCODE(TASK)/

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





BLOCK	COMMAND	TAG COMMENTS
26a	ITERATE	Q, 5, 8
	сото	block27a IF ISR_QUESTION(Q,TASK)=1 ****If answer is "Y"
	NEXT . GOTO .	Q blook28a
27a	SET	SETTING(TASK) = 1 . ****Assign to institutional setting. *
· ·	сото `	block35a LF TASK = NUMBER_OF_TASKS
	SHOW	#PRESS NEXT# to examine the next task.
	NEXT	TASK
	, ,	
•	, •	
		108

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y	вьоск	COMMAND	TAG COMMENTS
	28a [*]	SHOW "	(text28a)
		WAIT	<u>~</u>
	28ь	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
2	2,8 £	SHOW	(text28f)
•,		SHOWB	Guide reference page 9.
_		DECIDE 6	block28g, block28h, block28b
2	28g	SET	ISR_QUESTION(9, TASK) = 1
		COTO	block281
. 2	28h	SET	ISR_QUESTION(9,TASK) = 0
	•	Ì	
			¹ 109
0	•	,	
ŁĮC		` ^	

(text28a) /\$TASKCODE(TASK)/

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?

ВЬОСК	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)	Σ1
	DECIDE	block28j, block28o	
280	SHOW	(text28o)	
٠	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.	.,
	·	·	•
,		112 111	

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Ek Full Text F (text28i) /\$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)

You'r 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?

<u> </u>	BLOCK (COMMAND	TAG COMMENTS
-	28r	SHOW .	(text28r)
		WAIT	
	28s	SHOW	(text28s)
` 1 ₁	••	SHOWB	Guide reference page 10.
	•	WAIT	block28r
	28t	SHOW	(text28t)
		WAIT,	block28s
	28u	SHOW	(text28u)
		DECIDE	block28s, block28v
4	287	SĤOW	(text28v)
		SHOWB	Guide reference page 10.
		DECIDE	block28w, block28x, block28s
	28w	SET	ISR_QUESTION(11, TASK) = 1
,		GOTO .	block29a
	28★	SET	ISR_QUESTION(11, TASK) = 0
J	-	. ·	
	•		/,
		,	
	-	,	
	•		114
•			113

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(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.

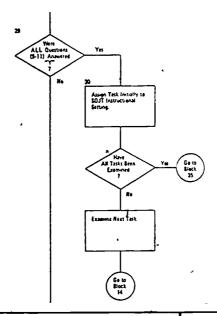
(text28u) Do you want to review the sources of information before answering this question?

(text28v) ANSWER THIS QUESTION

/\$TASKCODE(TASK)/

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





BLOCK	COMMAND.	TAG COMMENTS
29a , -	ITERATE	Q, 9, 11
•	GOTO	block31a IF ISR_QUESTION(Q, TASK) = 0
	NEXT	Q
30a	SET	SETTING(TASK) = 2
,	GOTO \	block35a IF TASK = NUMBER OF TASKS
	SHOW	#PRESS NEXT# to examine the next task.
	NEXT	TASK
•		
,		•
,		ò
مر		, į.
, .		116

Alk Questions 12 14
Record b "Y" or "N"
for Each as Appropriate

/

	BLOCK	COMMAND	7 TAG COMMENTS
	31a	SHOW -	(text3la)
	31b	SHOW 3	(text3lb)
		SHOWB	Guide reference page 10.
`		WAIT	block3la (
	31c	SHOW	(text3lc)
	,	WAIT .	block31b
	31d	SHOW	(text31d)
	**	WAIT	block3lc .
_	31e	SHOW ·	(text3le)
		WAIT	block31d
·二	31f	SHOW	(text3lf)
	ı	DECIDE	block31b, block31g
	31g	SHOW 🕏	(text3lg);
		. DECIDÉ	block31h, block31i, block31b
	31h	SET	ISR_QUESTION(12,TASK) = 1
	1	.SHOWB	Guide reference page 10.
	•	GOTO	block3lj .
_	31i	SET	ISR QUESTION(12, TASK) = 0
	* •		118

(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 Guide for guidance in selecting panel.

(text31e) SOURCES OF INFORMATION (continued)

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

- (text31f) Do 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	
31.j	SHOW	(text31j)	
	WAIT		•
31k	SHOW	(text31k)	
	SHOWB	Guide reference page 10.	
	WAIT	block31j	
31m	SHOW	(text31m)	
	WAIT	block31k	•
31n	SHOW	(text31n)	
	WAIT	block31m	
31o	³ SHOW	(text31o)	*
	DECIDE	block3lk, block3lp	
31p	-SHOW	(text3lp)	
`	SHOWB	Guide reference page 10.	
•	DECIDE	block3lq, block3lr, block3lk	
31q	SET	ISR_QUESTION(13, TASK) = 1	
	GOTO .	block31s	
31r	SET	ISR_QUESTION(13, TASK) = 0	
		120 4,	
	,		



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

(text31o) Do you want to review the sources of information before you answer this question?

(text31p) ANSWER THIS QUESTION

/\$TA\$KCODE(TASK)/

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

BLOCK &	COMMAND	[,] TAG	COMMENTS
31s	SHOW	(text3ls)	
,	WAIT	. 4	1
31t ,	SHOW	(text31t)	
	SHOWB	Guide reference page 11.	',
-	WĂIT	block3ls	all the second s
, 31u	· SHOW *	(text31u)	, i.e.
•	WAIT	block31t	
31v /	SHOW .	(text31v)	
ι, ζ	WAIT	block31u	. 47
31w	SHOW 🖳	(text31w)	
•	¹ DECIDE	block31t°, block31x	, ₂ ,
31 x	SHOW	(text31x)	•
	SHOWB	Guide reference page 11.	
•	DECIDE	block3ly, block3lz, block3lt	
31 y	SET	ISR QUESTION(14, TASK) = 1	
,	GOTO _ `	block32a,	
· 31z	SET	ISR_QUESTION(14,TASK) = 0	
	_		•
	٠		,
•	,	122	
	,	1.00	

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(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?

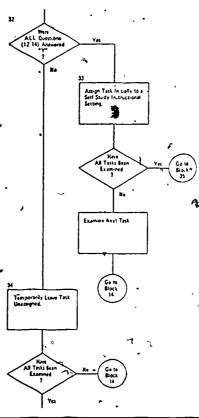
(text31t) SOURCES OF INFORMATION

Check with Course Development Personnel.

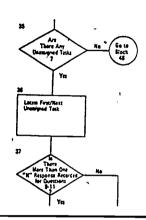
- (text31u) Panel of Subject Matter Experts. Fair source. See Supplemental Guide for guidance in selecting panel.
- (text31v) Your own judgment. Use only if other sources are not available.
- (text31w) Do you want to review the sources of information before answering the question?
- (text31x) ANSWER 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?



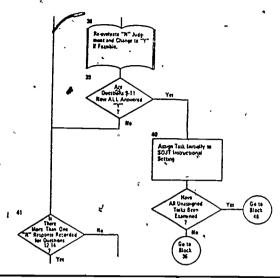
			Yes ^ .	*
	BLOCK	COMMAND	TAG	COMMENTS
	32a ,	ITERATE	Q, 12, 14	
	*· .	GOTO :	block34a IF ISR_QUESTION(Q, TASK) = 0 Q	,
,	33a	SET .	SETTING(TASK) = 3	****Indicates self-study instructional setting.
	[^] 34a	сото	block35a IF TASK = NUMBER_OF_TASKS	
	- ,	SHOW _ '	#PRESS NEXT# to examine the next task.	· •
٠,		NEXT	TASK	
	_	· .		•
	•		•	
		,	1	,



вгоск	COMMAND	' TAG	COMMENTS
35a	SET	FIRST_TIME = Ø	•
, 35ь	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	, ,
	сото	block46a	****Go to review of initial assignments when all tasks are assigned.
37a	SET	NOCOUNT = O	
• •	ITERATE,	Q, 9, 11	,
•	GOTO	block37b, If ISR_QUESTION(Q,TASK) = 1	t .
` \	SET SET	NOCOUNT' = NOCOUNT + 1 WHICH = Q	.
37b	NEXT ,		
	GOTO	Nach41 a TR NOGOIDM a 1	
,	·	block4la 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	text37b):
	coro	block38b IF WHICH = 10	
e .	coro	block38c IF WHICH = 11	•
, ' , '	• ,	126	
	. 1	123	•

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

/\$TASKCODE(TASK)/:



вьоск	COMMAND	TAG	COMMENTS
38a	SHOW	(text38a)	
	GOTO	block39a	
- 38b	SHOW	(text38b)	
	° GOTO	block39a	
38c	SHOW	(text38c)	,
39a	DECIDE	block40a, block41a	
40a	SET	SETTING(TASK) = 2	
	SET	ISR_QUESTION(WHICH, TASK) = -1	****INDIÇATE CHANGED ANSWER
	NEXT	TASK - · ·	, ,
41a	SET	NOCOUNT = 0 ·	
•	ITERATE	Q, 12, 14 ⁽	,
,	coro	block41b IF ISR_QUESTION(Q, TASK) = 1	, `
-	SET ·	NOCOUNT = NOCOUNT + 1	
	SET '.	WHICH = Q	
416	NEXT	Q ,	
,	сото	block45a IF NOCOUNT > 1	` ` .
	CÁTT	INTRÒa .	****SUBROUTINE CALL
	SHOW	(text41b)	•
	,	128	•
		.125	

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(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?

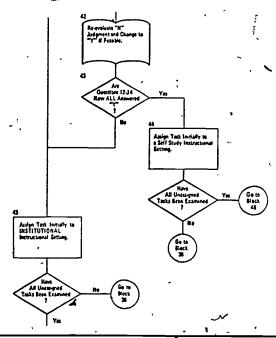
Can you realistically change your "NO" response to a "YES" response? $\ ^{\circ}$

(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 /STASKCODE(TASK)/:



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	
42b °	SHOW	(text42b)	
	GOTO ,	block43a	
420	SHOW	(text42c)	1
/43a	DECIDE	block44a, block45a	/
/ 44a	SET	SETTING(TASK) = 3	
	SÈT	ISR_QUESTION(WHICH, TASK) = -1	****INDICATE CHANGED ANSWER
	NEXT ,	TASK	•
45a	SET -	SETTING(TASK) = 1	
	NEXT	TASK	~ ' .
		•	
, 4		130	71
, . ©		127	

(text42a) LITTLE SUPERVISION REQUIRED?

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?



FOCK	· COMMAND	TAG /	COMMENTS
46a 🕶	SHOW	(text46a)	
• "	SHOWB	Guide reference page 11.	
·	WAIT		,
46b	ITERATE	š, 1, 3	****Go through loop for each
	GOTO	block46c IF S = 1	instructional setting.
,	GOTO	block46f IF S = 2	V.
	сото	block46j IF S = 3	·
46c	SHOW	(text46c) 4	
	WAIT		
46d -	· SHOW	(text46d)	
•	WAIT .	block46c	
46e .	SHOW	(text46e)	
	SHOWB	Guide reference page 11.	
•	WAIT .	block46d	
	GOTO	block46m	
1	· ,		•
-/			

(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 NOT be trained in a school setting. Following are examples 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#

•	вьоск	COMMAND	TAG		,	COMMENTS
er '	46f	SHOW WAIT	(text46f)			
. -	46g	SHOW WAIT	(text46g) block46f			
	46h	SHOW WAIT	(text46h) block46g	,		
``	461	SHOW SHOWB WAIT GOTO	(text461) Guide reference mage block46h block46m	11.		
			J			
		•				
		,		. 134	No.	

ERIC Figure 1 Figure

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(text46f) For each task initially assigned to SOJT, consider any reason why the task should NOT be trained in that setting. Following are examples 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 ESR 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.	o
	WAIT	block46k	
46n	ITERATE	TASK, 1, NUMBER_OF_TASKS	-;
	GOTO	block48f IF SETTING(TASK) = S	•••
			•
•	· ,		
		,	•
		/· '	
			,
	•	₹	
,		3	`
	•	136	,
-]	•	133	;

- (text46j) For each task initially assigned to Self-study, consider any reason why the task should NOT be learned in this setting. Following are examples 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 should 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?

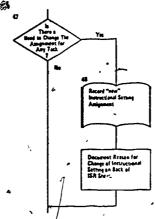
You may have other reasons why the task should not be taught by Self-study. Consider each reason carefully.

#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

#PRESS NEXT#



		,		
вџоск	COMMAND	· TAG	COMMENTS	
47a	SHOW DECIDE	(text47a) block48a, block48e		
48a	SHOW -ACCEPT GOTO	(text48a) NEW_S, 1, 3 block48c, IF S = NEW_S		
48b	SHOW . GOTO	(text48b) block47a block47a		

1 3 2

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(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#

-8rock	COMMAND	TAG	COMMENTS
48c	·SĘŢ	FSETTING(TASK) = NEW_S	
•	SHOW	(text48c)	
	WAIT	(block48d)	
ña: *	GOTO	block48f	
48d	SHOW .	(text48d1)	
.0	WAIT		
•	◆SHOW	(text48d2)	
	·WAIT	•	•
•	SHOW .	(text48d3)	,
` •	WAIT		
,	οτο	block48f	
48e	SET	FSETTING(TASK) = SETTING(TASK)	
·48f	NEXT	TASK	
	NEXT ·	s	
. *	GOTO	block49a	
	,	,	
	•,		
	•	•	
isto,	,	140	•
&		• •	_

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(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 forward and backward 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# -

(text48d2) It is important that you feed this information back to the appropriate people so that revisions can be made to effect improvement in the end product.

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 withplus 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 . SHOW WAIT	FIRST_TIME = 1 (text INTROa)	first time through the loop.
INTROb	SHOW	(text INTROb)	,
	WAIT	t.	
INTROC g	RETURN .		
, v.	•		•
•		142	e e e e e e e e e e e e e e e e e e e

(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#

MAROCOPY PRINTOUT OF HR SHEET

	,8LOCK ,	COMMAND	TÀG	COMMENTS
,	49a	STQP	*	****See attached memorandum, Guidelines for Producing Results of I.5 in hardcopy.
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	`.	,		*
		•	•	
		` .	144	

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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.



TASKS PERFORMED BY SPECIFIC DUTY POSITIONS

- IF I'SR 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 %E(1) ... ISR %E (NUMBER OF TASKS)
 - IF ISR-ZE(N) = 1 THEN HIGHLIGHT
 - ISR-%(N) AS AN ESTIMATE (e.g., put an asterisk beside it).
 - IF $ISR-XE(N) = \emptyset$ LEAVE ISR X(N) AS IS.

QUESTIONS 1 THROUGH 14

- ISR QUESTION (1, 1) TO ISR QUESTION (14, NUMBER OF TASKS)
- IF ISR-QUESTION (O.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 ONEY BE POSSIBLE ON QUESTIONS 9 THROUGH 14.
- IF ISR QUESTION (Q, TASK) = Ø THEN RECORD "N" IN THE ELL.
- IF ISR QUESTION (Q, TASK) = INITIAL VALUE THEN LEAVE THE CELL BLANK (99 IN OUR CASE).

 (This array should be initialized to a value at the beginning of the program.)

INSTRUCTIONAL SETTING

- 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) # SETTING (TASK) THEN PUT AN "X" IN APPROPRIATE COLUMN AND ROW (ROW 1, 2, or 3) DEPENDING ON THE VALUE OF SETTING(TASK). HIGHLIGHT THIS ENTRY SINCE IT WAS THE INITIAL SETTING SELECTED.

