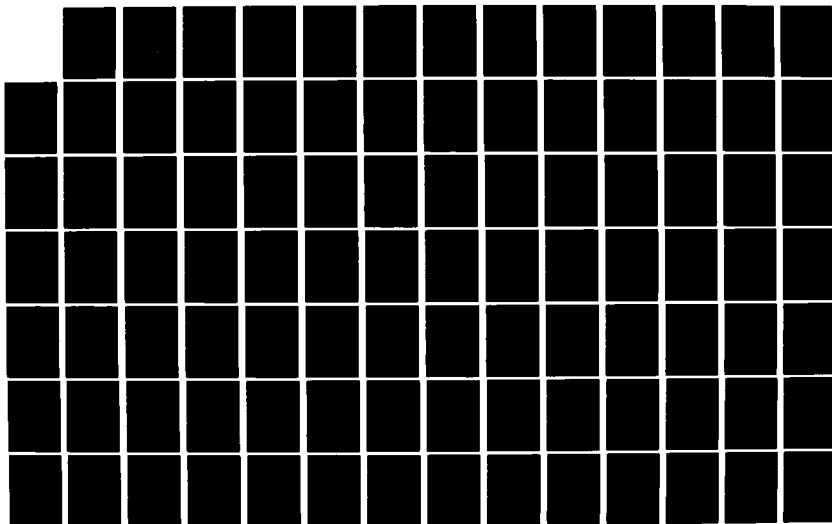


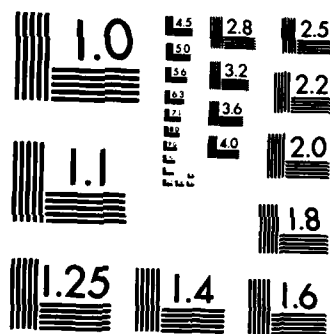
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AFB TX ENGLISH LANGUAGE CENTER. 01 JUL 78

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JOB LANGUAGE PERFORMANCE REQUIREMENTS
FOR ^{16R}
MOS

SHORT RANGE AIR DEFENSE ARTILLERY CREWMAN

REFERENCE SOLDIER'S MANUAL DATED

1 July 1978

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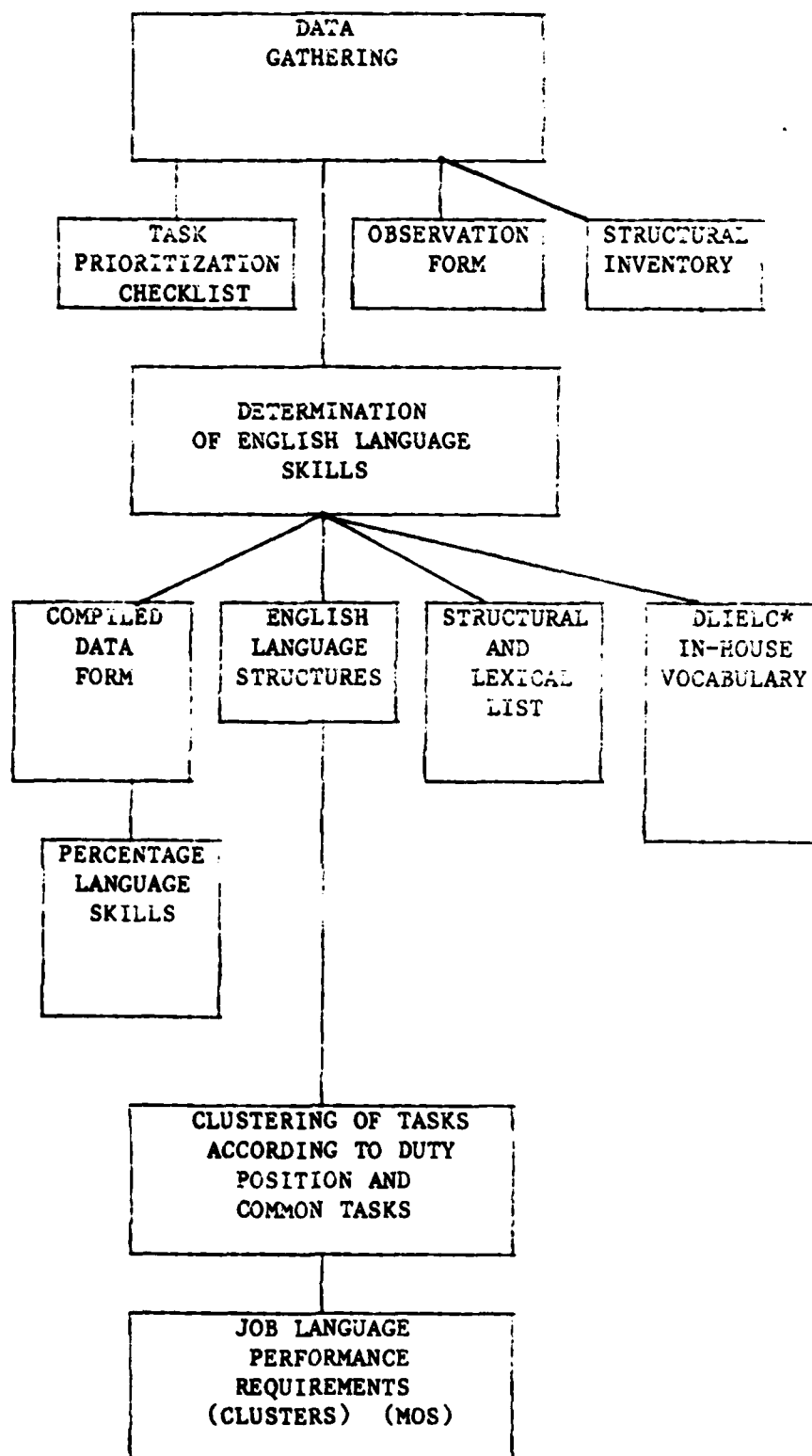


FIGURE 1

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO. A121079	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Job Language Performance Requirements (JLPR) for Pre-BT Extended Course Mos 16R		5. TYPE OF REPORT & PERIOD COVERED Final
7. AUTHOR(s) Defense Language Institute-English Language Center		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS Defense Language Institute-English Language Center ATTN: DLIELC-LEACA Lackland Air Force Base, TX 78236		8. CONTRACT OR GRANT NUMBER(s)
11. CONTROLLING OFFICE NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) Training Developments Institute ATTN: ATTG-DOR Fort Monroe, VA 23651		12. REPORT DATE ~~OCT 1982~~
		13. NUMBER OF PAGES 151
		15. SECURITY CLASS. (of this report) UNCLASSIFIED
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Job Language Performance Requirements (JLPR) Task Inventory Lexical Analysis Common Tasks Structural Analysis Listening English Language Skills Speaking Task Prioritization Checklist Reading		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The Job Language Performance Requirements (JLPR) study was conducted to determine language tasks the soldier must do in studying/performing job tasks. The language skills (listening, reading, writing, speaking) required to learn each Army job task were identified, conditions studied and standards determined. The data that generated the JLPR is identified.		

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PREFACE

INSTRUCTIONS FOR REVIEW OF JOB LANGUAGE PERFORMANCE REQUIREMENTS

This report is organized in six main sections. Sections I-IV discuss methods, forms and rationale for gathering, organizing and analyzing research data used to develop Job Language Performance Requirements (JLPR). Please look through these sections to get a general understanding of the background underlying the JLPR. Sections V and VI are the major substantive portions of the analysis. They are the results of the analysis and constitute the basis for development of any MOS-oriented English language materials. Section V contains the JLPR by cluster/topic, while Section VI contains the JLPR covering the entire range of clusters/topics.

The appendices, one through eight, contain all the information used to determine the Job Language Performance Requirements. Please write any suggestions or changes directly on the document or attach additional notes, if necessary.

The points covered in the six major sections are supported in greater detail in eight appendices. Below is an overview of these appendices.

Appendix one contains the Task Prioritization Checklist. It was taken to the field to collect the raw data. This form was approved for use by the Department of the Army.

Appendix two contains the Task Inventory Compiled Data Form. It was used to organize data from Unit and ALT respondents.

Appendix three defines the language skills by percentage. This form includes computations of language skills for each task cluster.

Appendix four contains the Observation Form used in the recording of types of listening and speaking skills required, as seen by observers, in the learning and performing of a task. The variety of environmental situations is also included on this form.

Appendix five contains the final list of structural and lexical items found through data gathering and organization.

Appendix six contains the DLIELC in-house vocabulary list. This is a task by task listing of the vocabulary extracted from the Soldier's Manual.

Appendix seven contains the machine-generated vocabulary for this MOS prepared by the United States Army Training and Doctrine Command (TRADOC), Fort Monroe, Virginia.

Appendix eight contains the list of structural and lexical items requisite to this MOS.

Thank you for your cooperation. It is greatly appreciated.

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SECTION I

DATA GATHERING

INTRODUCTION

This section discusses the procedures and forms in the gathering of data used to determine the Job Language Performance Requirements for this MOS.

SECTION I: DATA GATHERING

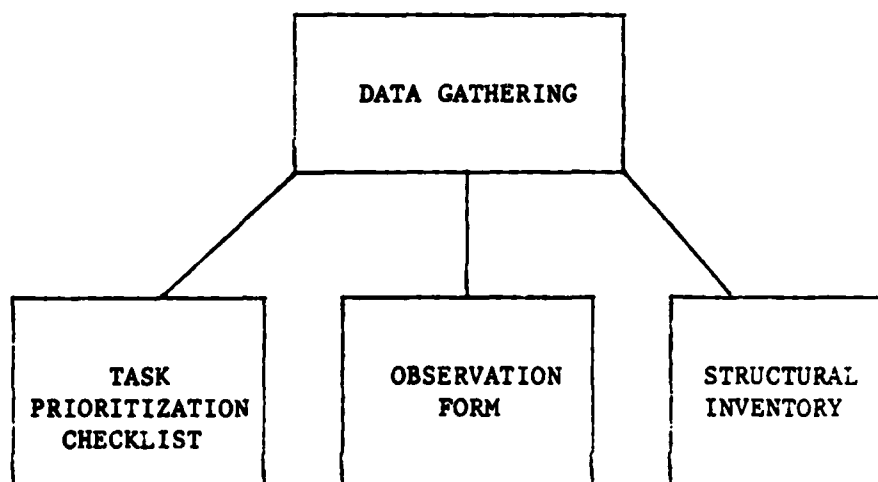


FIGURE 2

In order to establish Job Language Performance Requirements for this MOS the curriculum development specialists at the Defense Language Institute English Language Center (DLIELC) analyzed the current learning and working situations, and individual tasks. The goal was to collect data which would help identify the Job Language Performance Requirements pertinent to this MOS.

To conduct this analysis, training specialists visited the AIT School and Unit cadre. Interviews were conducted using a Task Prioritization Checklist, (Appendix 1). For each task, first-line supervisors answered the following questions:

1. Is the task taught?
2. How is the task taught?
3. Is the task tested?
4. How is the task tested?
5. How important are speaking, listening, reading and writing in learning and performing the task?
6. What are the results of poor performance in performing the task.

Additional data were gathered through use of an Observation Form and an analysis of language structures in the Soldier's Manual for this MOS.

The Observation Form (Appendix 4) was used to record actual observations of the learning situations, populations, tasks, and language.

The lexical and structural analysis was done by a panel of language specialists who first listed all structures found in the Soldier's Manual for this MOS and then all structures, standard and non-standard, noted on the Observation Forms for all vocabulary from the Soldier's Manual. All lists were then combined into an overall lexical and structural inventory.

SUMMARY/CONCLUSION:

The tools for data gathering were:

1. The Task Prioritization Checklist (Appendix 1)
2. The Task Inventory Compiled Data Form (Appendix 2)
3. The Observation Form (Appendix 4)
4. A Structural and Lexical Inventory (consisting of rough drafts of all vocabulary and structures in this MOS).

These tools were used to form the data pool from which the Job Language Requirements were determined.

SECTION II

DETERMINATION OF ENGLISH LANGUAGE SKILLS

INTRODUCTION

This section discusses the organization of the raw data into information used to determine the English language skills pertinent to this MOS.

SECTION II: DETERMINATION OF ENGLISH LANGUAGE SKILLS

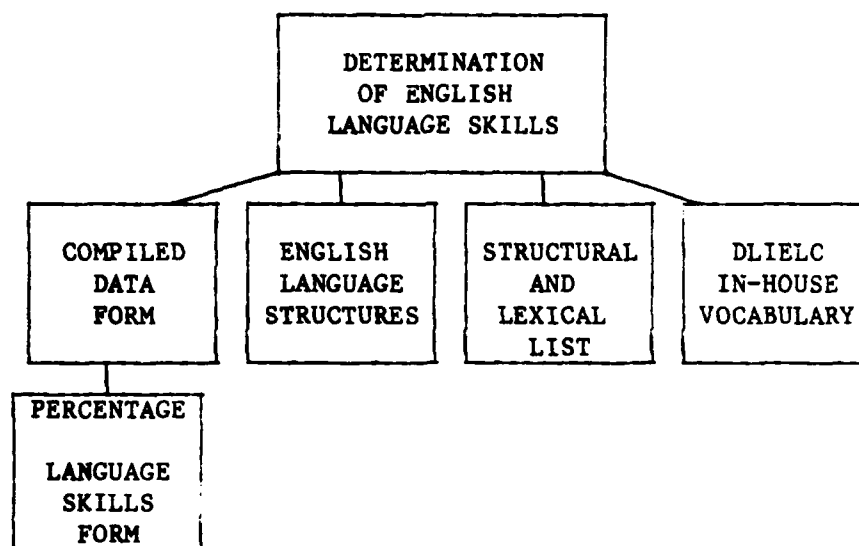


FIGURE 3

The raw data collected as described in Section II above was used to determine the English Language skills which the soldier must learn to learn and perform the task. The Compiled Data Form, Appendix 2, was used to organize the observation and analysis data. Selected information from the Task Prioritization Checklist was recorded directly on this form. Specifically three variables were used to determine the language skills involved. They were:

1. Methods of teaching.
2. Methods of testing.
3. The actual respondents' ratings of the four English language skills.

From each of the three variables the following skills were determined:

VARIABLE	ENGLISH LANGUAGE SKILLS
Methods of Teaching demonstration lecture hands on self-paced	listening, listening, writing listening reading, writing

Methods of Testing performance oral written	listening speaking writing, reading
Rating of English Language Skills listening speaking reading writing	*a response of 2 or 3 on a scale of 1 to 3 was tallied a response of 1, 2, or 3 on a scale of 1 to 5 was tallied

*See A1

In order to determine the relations of the various skills in the MOS, data from the three variables were tallied on the Percentage Language Skills Form. An average was then found using the following formula:

$$TR \div TxVxR = \% \text{ of use}$$

T = total number of tasks per cluster

V = language skill variable per cluster**

R = maximum number of respondents in any task in that cluster

TR = total tally of responses per task per skill

% of use = use of the language skill in the task

Percentages found in this MOS were:

Listening	55%
Speaking	39%
Reading	33%
Writing	28%

As shown by the figures, listening is the most important skill in this MOS. However, in particular duty sections, percentages varied. Appendix 3, the Percentage Language Skills Form, shows the actual skill percentages in each duty position.

**See A3

Organization of structural and lexical items was done by comparing a structural and lexical list extracted from the Soldier's Manual with a structural inventory list extracted from ALC (American Language Center) materials through Volume 2400, at the end of which a trainee is normally qualified for Specialized English Technical Terminology training. By comparing the lists redundancies were eliminated, leaving the final list of structural and lexical items indicated by grammatical title in Appendix 5.

SUMMARY/CONCLUSION:

Organization of the data included the recording of responses on the Task Inventory Compiled Data Form, use of the Percentage Language Skills Form, and the DLIELC in-house structural analysis list. Skills were analyzed by duty section. The actual lexical items in this MOS were grouped and listed task by task. This information was then used to determine the specific Job Language Performance Requirements.

SECTION III

CLUSTERING OF COMMON AND DUTY POSITION TASKS

INTRODUCTION

Due to the overlapping of certain elements among the various MOS, tasks were clustered in order to prevent duplication of effort for each MOS.

This section contains a listing of the clusters for this MOS.

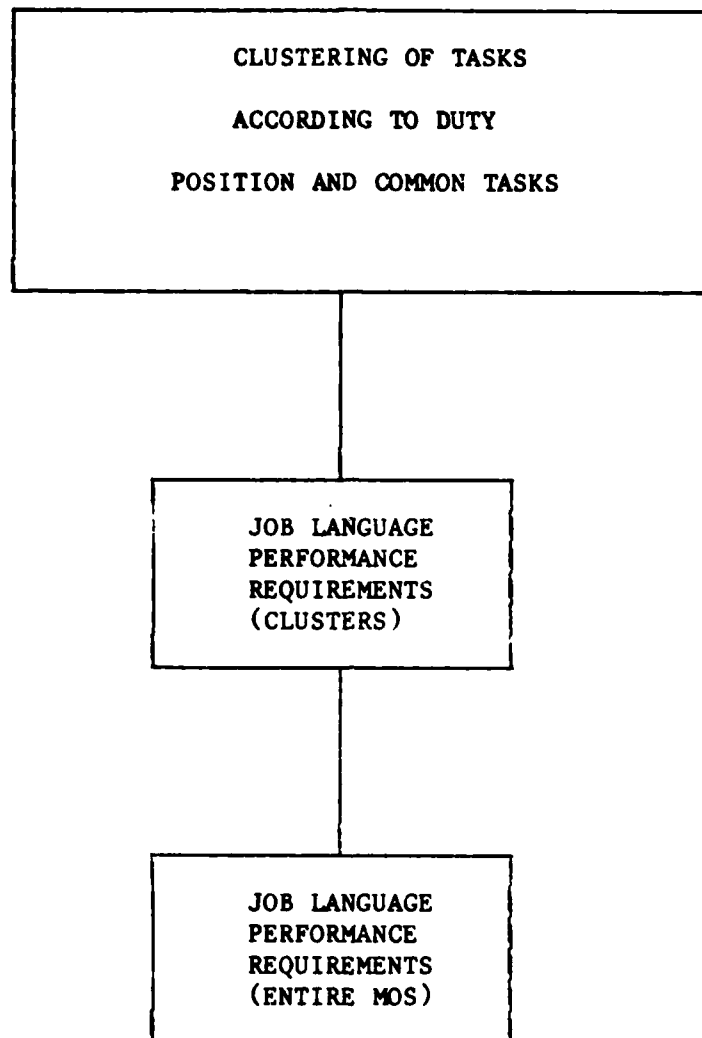


FIGURE 4

SECTION III: CLUSTERING OF COMMON AND DUTY POSITION TASKS

Clustering was done by using the common and duty position tasks in the Soldier's Manual.

The following clusters are in this MOS:

1. FIRST AID
2. NUCLEAR, BIOLOGICAL AND CHEMICAL OPERATIONS
3. INDIVIDUAL FITNESS
4. BASIC INDIVIDUAL TECHNIQUES
5. CAMOUFLAGE
6. SECURITY AND INTELLIGENCE
7. COMMUNICATIONS
8. LAND NAVIGATION
9. M16A1 RIFLE
10. LIGHT ANTI-TANK WEAPON (LAW)
11. GRENADES
12. MINES
13. VEHICLE OPERATIONS
14. .50 CALIBER MACHINEGUN
15. LEADERSHIP
16. DUTY TASKS

SECTION IV

JOB LANGUAGE PERFORMANCE REQUIREMENTS

INTRODUCTION

This section discusses the format for the Job Language Performance Requirements.

SECTION IV: JOB LANGUAGE PERFORMANCE REQUIREMENTS

The format for the Job Language Performance Requirements is:

TASK:
CONDITION:
STANDARD:

A. TASK

The Job Language Performance Requirements state the language tasks the soldier must do in studying/performing specific MOS job tasks. A task addressing language would be one of reading, listening, speaking or writing. Job tasks, as seen in the Soldier's Manual, are those which pertain to the soldiers duties. To write these as language tasks required the following explanations of what the soldier would speak, read, listen and write. Below are the kinds of explanations that had to be made in this MOS.

SPEAKING

Produces oral utterances to report/inform/explain/elicit response/respond.

Analysis of this MOS indicates verbal reports entailing those activities directly related to the soldiers job tasks.

The speaking act to respond or elicit response in this MOS is an oral response to a command or visual signal.

Speaking to explain involves situations of instruction in any training situation.

Speaking to inform involves producing oral utterances to communicate necessary information.

READING

Read for information/to learn.

Printed and written materials are used throughout this MOS. The soldier is expected to read technical manuals, fields manuals, soldier's manual, written communication and audio-visual aids. Content of these materials is presented in formats and styles ranging from simple factual words or sentences to complex passages containing highly technical vocabulary, often with ellipsis. The purpose is to teach the student, so the student reads them to learn. Reading to learn involves reading names, attributes, information, procedures, explanations of how systems work, concepts, vocabulary terms, and definitions which are committed to short or long term memory for immediate or later recognition.

Basically, the soldier will use these reading materials to supplement what is stated in a lecture by integrating the information from the different texts or written communiques into his understanding of the previous lecture.

The soldier must develop the ability to understand the words in context, to read in thought units, and then select and understand the main ideas. The soldier must retain, apply, and integrate these ideas with past experience to use in his MOS.

Reading to learn, then, is a synthesis. What is read is to be retained in memory for integration in new experiences.

Reading for information, on the other hand, is quite different. The read material is to be retained only in short term memory, used for a specific purpose (i.e., look up a metric equivalent of 37 pounds) and then forgotten.

LISTENING

Listen to oral information to learn/to report.

In this MOS, lecture is a main method of instruction. The lecture is often supplemented by a demonstration. The soldier listens to the lecture to learn data pertinent to the task. Analysis of lecture presentations indicated many language variables. The soldier hears sub-standard usages, various registers of style and formality, colloquialisms, even profanity, in situations ranging from a barracks to a field. The soldier must differentiate between the types of language functions. Is it expression, exchange, description, explanation, argumentation, persuasion, statement, request, or order? The oral information may be directly from the speaker and/or indirectly such as over the telephone, radio, TV, or tape. The soldier must organize and gain meaning from what is heard. Out of all these variables, the soldier must identify or infer the main ideas or major points.

Analysis of this MOS did not and could not specify all types of spontaneous language the soldier would be exposed to. The POI, though, does show the general form of the constrained oral language the soldier must listen to in order to learn the task.

B. CONDITIONS

The condition is what the soldier will be given in order to do the task. For the MOS job, the soldier is given paper, pencil, and printed materials. For language purposes, he will be given certain structural and lexical features as found through the data gathering and organizing from interviews and observations. Again, for the job that the soldier will be given, the material may be under normal working conditions, though other conditions may be added such as with or without protective gear or in darkness.

The soldier will read lists, tables, procedures, checklists or signs, and will hear scenarios, lectures, explanations, and commands. Therefore, these are listed with the Job Language Performance Requirements as possible conditions.

C. STANDARDS

The standard for our purpose is 100%. A standard for understanding or speaking cannot be tested as saying the soldier will disassemble a .45 caliber pistol in eight minutes. Because of this, 100% understandable speech or 100% legibility is used as a reference.

SUMMARY/CONCLUSION:

The Job Language Performance Requirements including tasks, conditions, and standards, were first written for each task cluster. The clusters were then combined into the Job Language Performance Requirements for the entire MOS.

SECTION V

JOB LANGUAGE PERFORMANCE REQUIREMENTS (CLUSTERED)

INTRODUCTION

Sections I, II, III, and IV described how Job Language Performance Requirements were identified and constructed.

This section contains the Job Language Performance Requirements for each task cluster pertinent to this MOS.

FIRST AID

I. PERCENTAGE LANGUAGE SKILLS

Listening	59%
Speaking	58%
Reading	54%
Writing	55%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Listen to respond
CONDITIONS:	Given a medical scenario involving simple questions about an illness in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral utterances.
TASK:	Produce oral utterances to explain
CONDITIONS:	Given a simple medical scenario requiring an oral interpretation in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in form of captioned illustrations, procedures, tables and explanations
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given the requirement to complete forms and make written reports
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

441-16R-1001	Apply the four life-saving steps
441-16R-1002	Apply first-aid measures for burns
441-16R-1003	Remove a victim from an electrical source and apply first-aid for electrical shock
441-16R-1005	Apply preventive and first-aid measures for carbon monoxide poisoning
441-16R-1006	Practice proper personal hygiene procedures
441-16R-1007	Apply preventive measures to reduce climatic injuries

NUCLEAR, BIOLOGICAL AND CHEMICAL OPERATIONS

I. PERCENTAGE LANGUAGE SKILLS

Listening	68%
Speaking	54%
Reading	40%
Writing	42%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Listen to perform
CONDITIONS:	Given oral warnings or verbal commands regarding simulated NBC situations (scenarios) in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral utterances
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given NBC situations requiring oral alarms
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures, captioned illustrations and notations defined as explanations
STANDARDS:	100% understanding of printed content
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in form of procedures, captioned illustrations and notations defined as explanations
STANDARDS:	100% understanding of printed material
TASK:	Write to record and report
CONDITIONS:	Given the requirement to complete forms and make written reports
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

441-16R-1004	Apply Artificial Resuscitation To A Chemical-Agent Casualty
441-16R-1008	Perform Masking And Unmasking Procedures
441-16R-1009	Maintain Protective Mask And Accessories
441-16R-1010	Recognize NBC Hazards And Markers For Contaminated Areas
441-16R-1011	Operate In And Cross An NBC Contaminated Area
441-16R-1012	Decontaminate Self And Individual Equipment

INDIVIDUAL FITNESS

I. PERCENTAGE LANGUAGE SKILLS

Listening	65%
Speaking	38%
Reading	42%
Writing	38%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Listen to learn and perform
CONDITIONS: Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

TASK: Produce appropriate oral responses spontaneously or upon request
CONDITIONS: Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understandable oral responses

TASK: Produce oral utterances to inform and respond
CONDITIONS: Given a requirement to produce a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understandable oral utterances

TASK: Read for information
CONDITIONS: Given printed MOS training materials in the form of procedures, manuals, charts, captioned illustrations and explanations
STANDARDS: 100% understanding of printed content

TASK: Write to record and report
CONDITIONS: Given a requirement to produce a written report
STANDARDS: 100% understandable and legible written content

III. TASK NUMBERS AND TITLES

441-16R-1014 Maintain Individual Physical Fitness Appropriate To Unit Mission

BASIC INDIVIDUAL TECHNIQUES

I. PERCENTAGE LANGUAGE SKILLS

Listening	60%
Speaking	50%
Reading	33%
Writing	31%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of captioned illustrations, warnings, procedures and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given the requirement to complete forms and make written reports
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

441-16R-1020 Engage Hostile Aircraft With Individual Weapon

CAMOUFLAGE

I. PERCENTAGE LANGUAGE SKILLS

Listening	61%
Speaking	47%
Reading	19%
Writing	22%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances to inform
CONDITIONS:	Given a requirement to produce a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of instructions, charts, captioned illustrations, explanations and procedures
STANDARDS:	100% understanding of printed content

III. TASK NUMBERS AND TITLES

441-16R-1024	Camouflage/Conceal Self
441-16R-1025	Select Hasty Individual Battlefield Positions That Provide Cover And Concealment
441-16R-1026	Construct And Camouflage An Individual Defensive Position
441-16R-1027	Conceal Movement By Using Weather And Light Conditions

SECURITY AND INTELLIGENCE

I. PERCENTAGE LANGUAGE SKILLS

Listening	54%
Speaking	52%
Reading	42%
Writing	41%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Listen to learn and perform
CONDITIONS: Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

TASK: Listen to orally interact
CONDITIONS: Given oral challenges, passwords and scenarios in any training situation (Appendix 4) using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral information

TASK: Produce appropriate oral responses spontaneously or upon request
CONDITIONS: Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understandable oral responses

TASK: Produce spontaneous oral utterances to interact
CONDITIONS: Given the requirement to orally respond to challenges, passwords and security situations in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understandable oral utterances

TASK: Read to learn
CONDITIONS: Given printed MOS training materials in the form of procedures, tables and warnings
STANDARDS: 100% understanding of printed content

TASK: Write to record and report
CONDITIONS: Given the requirement to complete forms and make written reports
STANDARDS: 100% understandable and legible written content

III. TASK NUMBERS AND TITLES

441-16R-1015 Perform The Duties Of A Sentry

444-16R-1016 Resist Enemy Interrogation, Indoctrination, Or
Exploitation, If You Are Captured
441-16R-1017 Report Information Of Possible Intelligence Value
441-16R-1018 Apply Geneva Convention Rules For Handling Prisoners
Of War (PW)
441-16R-1019 Safeguard Classified Information
441-16R-1021 Practice Noise, Light, And Litter Discipline
441-16R-1037 Visually Recognize Aircraft

COMMUNICATIONS

I. PERCENTAGE LANGUAGE SKILLS

Listening	77%
Speaking	54%
Reading	47%
Writing	44%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral utterances
TASK:	Listen to perform
CONDITIONS:	Given a brief oral message including prowords in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral content
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances over radiotelephone
CONDITIONS:	Given the requirement to orally communicate using the phonetic alphabet in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of instructions, captioned illustrations and sample messages using prowords
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given a requirement to complete communication forms and logs
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

441-16R-1022	Install, Operate, And Maintain Field Telephones TA-1/PT And TA-312/PT
441-16R-1023	Communicate Using Proper Radiotelephone Procedures
441-16R-2006	Use Correct Radiotelephone Procedures

LAND NAVIGATION

I. PERCENTAGE LANGUAGE SKILLS

Listening	69%
Speaking	38%
Reading	54%
Writing	49%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to produce a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of marked maps, definitions, captioned illustrations, instructions and procedures
STANDARDS:	100% understanding of printed content
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of captioned illustrations, warnings, procedures and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record
CONDITIONS:	Given a requirement to record the grid reference
STANDARDS:	100% legible written content

III. TASK NUMBERS AND TITLES

441-16R-1013	Navigate From One Point On The Ground To Another With The Aid Of A Strip Map
441-16R-2001	Determine An Azimuth
441-16R-2002	Locate A Point On A Map
441-16R-2003	Navigate Using A Compass
441-16R-2004	Navigate Using A Map
441-16R-2005	Measure Ground Distance

M16A1 RIFLE

I. PERCENTAGE LANGUAGE SKILLS

Listening	71%
Speaking	41%
Reading	19%
Writing	13%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures, captioned illustrations, warnings and references
STANDARDS:	100% understanding of printed content
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of a range card
STANDARDS:	100% understanding of printed content
TASK:	Write to record
CONDITIONS:	Given a requirement to complete a range card
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

441-16R-1028 Perform Preventive Maintenance On M16A1 Rifle,
Magazine, And Ammunition
441-16R-1029 Load, Reduce A Stoppage In, Unload, And Clear An
M16A1 Rifle
441-16R-1030 Zero An M16A1 Rifle
441-16R-1031 Qualify With An M16A1 Rifle

LIGHT ANTITANK WEAPON (LAW)

I. PERCENTAGE LANGUAGE SKILLS

Listening	63%
Speaking	31%
Reading	17%
Writing	9%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4); using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures, descriptions, tables and SOPs
STANDARDS:	100% understanding of printed content
TASK:	Read for information
CONDITIONS:	Given printed MOS training materials in the form of procedures, descriptions, tables and SOPs
STANDARDS:	100% understanding of printed content

III. TASK NUMBERS AND TITLES

441-16R-1032	Prepare M72A2 LAW For Firing/Restore M72A2 LAW To Carrying Position
441-16R-1033	Engage Targets On A Firing Range With An M72A2 LAW

GRENADES

I. PERCENTAGE LANGUAGE SKILLS

Listening	40%
Speaking	17%
Reading	11%
Writing	0%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Listen for information
CONDITIONS:	Given oral instructions to perform task specific assignments in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral information
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to produce a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of warnings, procedures, definitions, captioned illustrations and references
STANDARDS:	100% understanding of printed content

III. TASK NUMBERS AND TITLES

441-16R-1034 Engage Targets With Hand Grenades

MINES

I. PERCENTAGE LANGUAGE SKILLS

Listening	10%
Speaking	13%
Reading	8%
Writing	6%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce appropriate oral responses spontaneously or upon request
CONDITIONS:	Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral responses
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of warnings, procedures, definitions, captioned illustrations and references
STANDARDS:	100% understanding of printed content
TASK:	Write to inform
CONDITIONS:	Given a requirement to mark mine fields
STANDARDS:	100% understandable and legible written communication

III. TASK NUMBERS AND TITLES

441-16R-1035	Install/Recover An Electrically Armed Claymore Mine
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VEHICLE OPERATIONS

I. PERCENTAGE LANGUAGE SKILLS

Listening	48%
Speaking	31%
Reading	50%
Writing	41%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce oral utterances to inform
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of procedures, descriptions, tables and SOPs
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given the requirement to complete DA forms
STANDARDS:	100% legible written content

III. TASK NUMBERS AND TITLES

441-16R-1036	Perform Operator Maintenance On Assigned Section Vehicle
441-16R-1047	Operate And Maintain A 5-Ton Truck

.50 CALIBER MACHINEGUN

I. PERCENTAGE LANGUAGE SKILLS

Listening	27%
Speaking	17%
Reading	11%
Writing	8%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK: Listen to learn and perform
CONDITIONS: Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understanding of oral communication

TASK: Produce appropriate oral responses spontaneously or upon request
CONDITIONS: Given any verbal stimulus in the form of questions, scenarios or instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understandable oral responses

TASK: Produce oral utterances to inform
CONDITIONS: Given a requirement to give a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS: 100% understandable oral utterances

TASK: Read to learn
CONDITIONS: Given printed MOS training materials in the form of captioned illustrations, procedures and references
STANDARDS: 100% understanding of printed content

TASK: Read for information
CONDITIONS: Given printed MOS training materials in the form of a range card
STANDARDS: 100% understanding of printed content

TASK: Write to record
CONDITIONS: Given a requirement to complete a range card
STANDARDS: 100% understandable and legible written content

III. TASK NUMBERS AND TITLES

441-16R-1046 Maintain And Operate A .50 Caliber HB M2 Machinegun

LEADERSHIP

I. PERCENTAGE LANGUAGE SKILLS

Listening	60%
Speaking	44%
Reading	46%
Writing	34%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn
CONDITIONS:	Given oral instructions in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Listen for information
CONDITIONS:	Given oral instructions to perform task specific assignments in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral information
TASK:	Produce oral utterances to inform and respond
CONDITIONS:	Given a requirement to instruct in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of warnings, procedures and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given a requirement to produce a written report
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

441-16R-2007	Perform Duties As Commander Of The Relief
441-16R-2008	Conduct Squad/Section Level Training

DUTY TASKS

I. PERCENTAGE LANGUAGE SKILLS

Listening	49%
Speaking	32%
Reading	29%
Writing	20%

II. JOB LANGUAGE PERFORMANCE REQUIREMENTS

TASK:	Listen to learn and perform
CONDITIONS:	Given oral instructions or verbal commands in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understanding of oral communication
TASK:	Produce oral utterances to inform
CONDITIONS:	Given a requirement to make a verbal report in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Produce oral utterances over radiotelephone
CONDITIONS:	Given the requirement to orally communicate using communication procedures in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Produce oral utterances to warn
CONDITIONS:	Given a requirement to utter verbal warnings in any training situation (Appendix 4), using standard and non-standard structural and lexical items (Appendices 5 & 6)
STANDARDS:	100% understandable oral utterances
TASK:	Read to learn
CONDITIONS:	Given printed MOS training materials in the form of warnings, procedures and references
STANDARDS:	100% understanding of printed content
TASK:	Write to record and report
CONDITIONS:	Given a requirement to complete DA forms and logs
STANDARDS:	100% understandable and legible written content
TASK:	Write to record
CONDITIONS:	Given a requirement to complete a range card
STANDARDS:	100% understandable and legible written content

III. TASK NUMBERS AND TITLES

441-16R-1038	Perform Boresighting Procedures
441-16R-1039	Perform Preventive Maintenance On Generator Set, 1.5 KW, DC, 28V
441-16R-1040	Emplace, Operate, And March Order The Target Alert Data Display Set (TADDS)
441-16R-1041	Perform Operator Checks And Adjustments On The Target Alert Data Display Set, To Include Preventive And Corrective Maintenance
441-16R-1042	Prepare Vulcan Ammunition For Firing, Transportation And Storage
441-16R-1043	Occupy And Improve A Vulcan Firing Position
441-16R-1044	Operate And Perform Preventive Maintenance On A Tracked Vehicle
441-16R-1045	Perform Observer Procedures
441-16R-1048	Perform Preventive Maintenance Checks And Services On The SP Vulcan System
441-16R-1049	Perform Preparation For Firing Procedures On SP Vulcan Armament System
441-16R-1050	Perform SP Vulcan Water-Crossing Operations
441-16R-1051	Operate SP Vulcan System Under Unusual Conditions
441-16R-1052	Operate And Maintain The SP Vulcan Auxiliary Equipment
441-16R-1053	Perform SP Vulcan Squad Drill
441-16R-1054	Engage Aerial And Ground Targets With The SP Vulcan System
441-16R-1055	Perform SP Vulcan Ammunition Loading Procedures
441-16R-1056	March Order And Emplace The Towed Vulcan System
441-16R-1057	Perform Firing Interrupter Adjustment On Towed Vulcan
441-16R-1058	Operate The Towed Vulcan Under Unusual Conditions
441-16R-1059	Operate And Maintain Towed Vulcan Auxiliary Equipment
441-16R-1060	Perform Preventive Maintenance On Gama Goat
441-16R-1061	Operate The Gama Goat
441-16R-1062	Perform Fording And Swimming Operations Using The Gama Goat
441-16R-1063	Perform Towed Vulcan Squad Drill
441-16R-1064	Engage Aerial And Ground Targets With The Towed Vulcan
441-16R-1065	Perform Towed Vulcan Ammunition Loading Procedures
441-16R-2009	Perform Round Interval Preventive Maintenance On The M168 Cannon
441-16R-2010	Perform SP Vulcan Armament System Daily Checks
441-16R-2011	Perform Troubleshooting And Corrective Procedures On The SP Vulcan System
441-16R-2012	Perform Troubleshooting And Corrective Maintenance On The Towed Vulcan

SECTION VI

JOB LANGUAGE PERFORMANCE REQUIREMENTS (Entire MOS)

INTRODUCTION

This section contains language tasks for each generic skill for this MOS. Listed below each task are the types of receptive or productive language activity involved.

LISTENING

TASK: Understand oral language intended to inform or instruct.

CONDITIONS: Given explanations, procedures, rules, instructions or definitions in simple to complex lexicon and syntax, formal or informal registers, casual or colloquial speech, military jargon, slang or dialectical speech in any training situation. (Appendices 4, 5 & 6)

STANDARDS: 100% understanding and assimilation of presented oral language task.

The following are specific conditions found in this language task:

Warnings
Described situations
Directions
Lectures
Commands, Orders
Sound tracks (films, tapes)
Standard/Non-standard English
Instructions
SQT questions

TASK: Understand spontaneous oral language or language via a technical medium - such as a radio telephone - intended to inform and elicit responses.

CONDITIONS: Given scenarios, questions, commands or requests in simple to complex lexicon and syntax, formal or informal registers, casual or colloquial speech, military jargon, slang or dialectical speech in any training situation. (Appendices 4, 5, & 6)

STANDARDS: 100% understanding and assimilation of oral language in order to apply and respond.

The following are specific conditions found in this language task:

Shouting
Radio communications
Coded messages
Spellings
Conversation
Requests

SPEAKING

- TASK:** Formulate and produce appropriate oral responses spontaneously.
- CONDITIONS:** Given any verbal stimulus in the form of questions, scenarios, instructions, or cues in any training situation.
(Appendices 5 & 6)
- STANDARDS:** 100% understandable oral response using correct lexicon and syntax for the training situation.

The following are specific conditions found in the language task:

Explanations
Statements
Repetitions
Counting
Corrections
Assignments
Notifications
Oral reports
Answers
Clarifications
Information

- TASK:** Produce oral utterances to interact and communicate spontaneously or via a technical medium such as radio telephone.
- CONDITIONS:** Given a communicative situation (Appendices 4, 5, & 6 Soldier's Manual) in any training situation.
- STANDARDS:** 100% understandable communication using correct lexicon and syntax for the communication act.

The following are specific conditions found in this language task:

Requesting information
Requesting permission
Transmitting messages
Call signs
Vocal signals
Shout warnings
Radio communications
Target locations
Directions (N,S,E,W)
Directions, general
Requests for fire
Report on the results of fire
Challenges/Passwords
Training sessions
Interaction

READING

- TASK:** Read MOS training in the form of printed prose or graphic representations in order to learn processes, concepts, vocabulary, definitions and identifications, to calculate problems, intercept codes and complete forms.
- CONDITIONS:** Given technical, non-technical, lexical and structural features in simple to complex printed form in any training situation. (Appendices 4, 5 & 6)
- STANDARDS:** 100% understanding of printed content.

The following are specific conditions found in this language task:
Captions with illustrations.

Lists	Extracts
Procedures	Columns
Information	Indices
Definitions	Charts
Outlines	Methods
Signs	Technical Vocabulary
Markers	Standard Operating Procedures
References	Cartoons
Rules	Problems
Maps	Manuals
Flags	Graphic Training Aids
Military Documents	
I.D. Papers	
Regulations	

- TASK:** Identify, understand, and interpret written utterances pertinent to MOS training in technical or non-technical language.
- CONDITIONS:** Given technical, non-technical, lexical and structural features in simple to complex written form in any training situation. (Appendices 4, 5 & 6)
- STANDARDS:** 100% understanding of written content.

The following are specific conditions found in this language task:

Lists
Information
Descriptions
Radiation readings off dosimeter
Coordinate scales
Callsigns-suffices
Three-letter codes
Examples
Calculations
Markings
Radio communications
Range cards
Notes
Messages

WRITING

- TASK:** Upon instruction, write in conventional orthography, letter, numbers, words or sentences appropriate to the training situation.
- CONDITIONS:** Given standardized forms, paper or answer sheets and the instructions to list, answer, describe or recall.
- STANDARDS:** 100% syntactical and lexical correctness and legibility of writing which is also appropriate in style and usage to training situations. (Appendix 4)

The following are specific conditions found in this language task:

Ratings
Signatures
Range cards
Data symbols
Answers
Descriptions
Notes
Reports

- TASK:** Write, in conventional orthography, letters, or specialized code, numbers, words or sentences in order to transmit or record information.
- CONDITIONS:** Given standardized forms or paper and oral communication.
- STANDARDS:** 100% syntactical and lexical correctness of writing which can be read by another speaker of English.

The following are specific conditions found in this language task:

Technical forms
Codes
Grid coordinates
Decoded messages
Encoded messages
Logbooks
Plottings
Figures
Reports
Tags
Range cards
Applicable DA forms

APPENDICES

1. Task Prioritization Checklist
2. Task Inventory Compiled Data Forms
3. Percentage Language Skills
4. Observation Form
5. Structural/Lexical list
6. Vocabulary (DLIELC in-house)
7. Vocabulary (machine-generated)
8. English Language Structures

APPENDIX 1

TASK PRIORITIZATION CHECKLIST

This Checklist was approved by the
Department of the Army in 1980.

APPENDIX 2

TASK INVENTORY COMPILED DATA FORM

This form was used to record data from
the Task Prioritization Checklist.

MOS 162

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

GERMAN

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT	IMPORTANCE	EQUIPMENT	DANGER TO PERSON OR	LECTURE	DEMONSTRATION	HANDS-ON	SELF-PACED	PERFORMANCE	ORAL	WRITTEN	LISTENING	SPEAKING	READING	WRITING
441 162-1001																				
441 162-1002																				
441 162-1003																				
441 162-1005																				
441 162-1006																				
441 162-1007																				
441 162-1009																				
441 162-1010																				
441 162-1011																				
441 162-1012																				

FIRST 910

NBC

MOS

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	MOS		NUMBER OF RESPONDENTS		DATA OBTAINED FROM		TRAINING SPECIALIST	
											danger to person or	equipment	importance	difficult?	tested?			
441-16R-1010			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
441-16R-1011			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
441-16R-1012			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
441-16R-1013			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
441-16R-1014			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
441-16R-1015			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
441-16R-1016			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
441-16R-1017			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
441-16R-1018			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
441-16R-1019			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
441-16R-1020			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
441-16R-1021			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												
441-16R-1022			self-paced hands-on demonstration lecture	written oral performance	writing reading speaking listening	danger to person or equipment importance												

CLASSIFIED

SECURITY & INTELLIGENCE

MOS

16c

NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT		importance	equipment	danger to person or					
						difficult?	tested?								
											CRITICALITY				
											lecture	demonstration			
441 16d-1011			self-paced	written	writing										
											hands-on	oral	reading		
														performance	speaking
441 16d-1013			self-paced	written	writing										
											hands-on	oral	reading		
														performance	speaking
441 16d-2006			self-paced	written	writing										
											hands-on	oral	reading		
														performance	speaking
441 16d-1013			self-paced	written	writing										
											hands-on	oral	reading		
														performance	speaking
441 16d-2001			self-paced	written	writing										
											hands-on	oral	reading		
														performance	speaking
441 16d-2002			self-paced	written	writing										
											hands-on	oral	reading		
														performance	speaking
441 16d-2003			self-paced	written	writing										
											hands-on	oral	reading		
														performance	speaking
441 16d-2004			self-paced	written	writing										
											hands-on	oral	reading		
														performance	speaking
441 16d-2005			self-paced	written	writing										
											hands-on	oral	reading		
														performance	speaking
441 16d-1018			self-paced	written	writing										
											hands-on	oral	reading		
														performance	speaking
441 16d-1019			self-paced	written	writing										
											hands-on	oral	reading		
														performance	speaking
441 16d-1011			self-paced	written	writing										
											hands-on	oral	reading		
														performance	speaking

Common Core

LAND NAVIGATION

16A R/LC

[illegible]

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS			
					writing	reading	speaking	listening
	difficulty?	danger to person or equipment	self-paced hands-on demonstration lecture	written oral performance				
	tested?	importance						
	taught?							
441-162-1032								
441-162-1033								
441-162-1034								
441-162-1035								
441-162-1036								
441-162-1037								
441-162-1038								
441-162-2007								
441-162-2006								
441-162-1039								
441-162-1040								

MOS

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NUMBER OF RESPONDENTS

DATA OBTAINED FROM

TRAINING SPECIALIST

TASK NUMBER	AIT	CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS	UNIT		CRITICALITY	METHODS OF TEACHING	METHODS OF TESTING	RATING OF ELS						
						danger to person or equipment	importance					difficult?	tested?				
														writing	reading	speaking	listening
441-162-1041																	
441-162-1042																	
441-162-1043																	
441-162-1044																	
441-162-1045																	
441-162-1046																	
441-162-1047																	
441-162-1048																	
441-162-1049																	
441-162-1050																	
441-162-1051																	
441-162-1052																	
441-162-1053																	
441-162-1054																	

2471 74545

DUY 4545

MOS _____ NUMBER OF RESPONDENTS _____

DATA OBTAINED FROM _____ TRAINING SPECIALIST _____

[illegible]

APPENDIX 3

PERCENTAGE LANGUAGE SKILLS

This appendix contains the computations for the percentages of listening, speaking, reading and writing involved in each cluster.

Some clusters have two sets of computations because some Task Prioritization Forms were received after original computations and had to be added on.

PERCENTAGE LANGUAGE SKILLS
NOS 16R

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = variables
R = maximum number of respondents in any task in that cluster

FOR. A	LISTENING	SPEAKING	READING	WRITING
TR + (T)(V)(R) = %	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
FIRST AID 441-16R-1001 441-16R-1003 441-16R-1005 441-16R-1007	$6 \times 5 \times 4 = 120$ 11 21 10 12 17 71 $120 \overline{) 71.000}$	$6 \times 2 \times 4 = 48$ 11 17 28 $48 \overline{) 28.000}$	$6 \times 3 \times 4 = 72$ 0 19 20 39 $72 \overline{) 39.000}$	$6 \times 4 \times 4 = 96$ 21 0 19 13 53 $96 \overline{) 53.000}$
	59%	58%	54%	55%
INPC 441-16R-1004 441-16R-1008 441-16R-1012	$6 \times 5 \times 4 = 120$ 17 14 17 18 16 82 $120 \overline{) 82.000}$	$6 \times 2 \times 4 = 48$ 10 16 26 $48 \overline{) 26.000}$	$6 \times 3 \times 4 = 72$ 0 14 15 27 $72 \overline{) 27.000}$	$6 \times 4 \times 4 = 96$ 10 0 11 12 40 $96 \overline{) 40.000}$
	64%	54%	43%	50%
INDIVIDUAL POINTS 441-16R-1011	$1 \times 5 \times 4 = 20$ 3 2 3 2 3 13 $20 \overline{) 13.000}$	$1 \times 2 \times 4 = 8$ 0 3 3 $8 \overline{) 3.000}$	$1 \times 3 \times 4 = 12$ 1 2 2 5 $12 \overline{) 5.000}$	$1 \times 4 \times 4 = 16$ 2 1 2 1 6 $16 \overline{) 6.375}$
	65%	38%	42%	38%
			61	

PERCENTAGE LANGUAGE SKILLS
NOS 16R

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = variables
R = maximum number of respondents in any task in that cluster

FORMULA	LISTENING	SPEAKING	READING	WRITING
$\% = \frac{TR + (T)(V)(R)}{TR + (T)(V)(R)}$	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
3A21C INDIVIDUAL TASKS 441-16R-1020	1x5x4=20 2 1 3 2 4 12 20 $\overline{) 12.000}$.600	1x2x4=8 1 3 4 8 $\overline{) 4.000}$.500	1x3x3=9 1 1 2 4 12 $\overline{) 4.000}$.733	1x4x4=16 1 1 1 2 5 16 $\overline{) 5.000}$.313
	60%	50%	33%	31%
CAMOUFLAGE 441-16R-1024 441-16R-1027	4x5x4=80 13 5 10 10 11 49 49 $\overline{) 62.000}$.613	4x2x4=32 2 13 15 52 $\overline{) 25.000}$.469	3x4=12 - 13 $\overline{) 9.000}$.188	4x4x4=64 5 2 3 4 14 64 $\overline{) 14.000}$.225
	61%	47%	19%	22%
SECURITY AND INTELLIGENCE 441-16R-1015 441-16R-1019 441-16R-1021 441-16R-1037	7x5x4=140 16 18 8 10 23 75 75 $\overline{) 75.000}$.536	7x2x4=56 10 19 29 56 $\overline{) 29.000}$.518	7x3x4=84 0 16 19 35 84 $\overline{) 35.000}$.417	7x4x4=112 18 0 16 12 46 112 $\overline{) 46.000}$.411
	54%	52%	42%	41%
			62	

**PERCENTAGE LANGUAGE SKILLS
NOS 16A**

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = variable
R = maximum number of respondents in any task in that cluster.

FOR	LISTENING	SPEAKING	READING	WRITING
TR + (T)(V)(R) = %	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
COMMUNICATIONS 441-16R-1022 441-16R-1023 441-16R-2006	3X5X4 = 60 9 6 10 12 9 <u>46</u> 60 $\sqrt{46.000}$.767	2X2X4 = 24 2 11 <u>13</u> 24 $\sqrt{13.000}$.542	3X3X4 = 36 3 6 8 <u>17</u> 36 $\sqrt{17.000}$.472	3X4X4 = 48 6 3 6 6 <u>21</u> 48 $\sqrt{21.000}$.437
	77%	54%	47%	44%
LAND NAVIGATION 441-16R-1023 441-16R-2001 441-16R-2005	6X5X4 = 120 16 13 20 19 15 <u>83</u> 120 $\sqrt{83.000}$.692	6X2X4 = 48 4 14 <u>18</u> 48 $\sqrt{18.000}$.375	6X3X4 = 72 1 18 20 <u>39</u> 72 $\sqrt{39.000}$.542	6X4X4 = 96 13 1 18 15 <u>47</u> 96 $\sqrt{47.000}$.489
	69%	38%	54%	49%
MILITARY REFLC 441-16R-1024 441-16R-1031	4X5X4 = 80 10 3 16 16 12 <u>57</u> 80 $\sqrt{57.000}$.713	4X2X4 = 32 1 12 <u>13</u> 32 $\sqrt{13.000}$.406	4X3X4 = 48 1 0 8 <u>9</u> 48 $\sqrt{9.000}$.188	4X4X4 = 64 1 1 0 4 <u>8</u> 64 $\sqrt{8.000}$.250
	71%	41%	19%	12%
			63	

**PERCENTAGE LANGUAGE SKILLS
NOS 16R**

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = variables
R = maximum number of respondents in any task in that cluster

FORMULA	LISTENING	SPEAKING	READING	WRITING
$\% = \frac{TR + (T)(V)(R)}{TR + (T)(V)(R)}$	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
L.A.W. 441-16R-1032 441-16R-1033	$2 \times 5 \times 4 = 40$ $\begin{array}{r} 5 \\ 1 \\ 7 \\ 7 \\ 5 \\ \hline 25 \end{array}$ $40 \overline{) 25.000}$	$2 \times 2 \times 4 = 16$ $\begin{array}{r} 0 \\ 1 \\ 5 \\ \hline 5 \end{array}$ $16 \overline{) 5.000}$	$2 \times 3 \times 4 = 24$ $\begin{array}{r} 0 \\ 1 \\ 3 \\ 4 \\ \hline 4 \end{array}$ $24 \overline{) 4.000}$	$2 \times 4 \times 4 = 32$ $\begin{array}{r} 1 \\ 0 \\ 1 \\ 1 \\ 3 \\ \hline 3 \end{array}$ $32 \overline{) 1.000}$
	63%	31%	17%	9%
GRENADES 441-16R-1034	$1 \times 5 \times 3 = 15$ $\begin{array}{r} 1 \\ 0 \\ 2 \\ 1 \\ 2 \\ \hline 6 \end{array}$ $15 \overline{) 4.000}$	$1 \times 2 \times 3 = 6$ $\begin{array}{r} 0 \\ 1 \\ 1 \\ \hline 1 \end{array}$ $6 \overline{) 1.000}$	$3 \times 3 = 9$ $\begin{array}{r} - \\ 7 \\ 1 \\ \hline 1 \end{array}$ $7 \overline{) 1.000}$	$1 \times 4 \times 3 = 12$ $\begin{array}{r} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline 0 \end{array}$
	40%	17%	11%	5%
MINES 441-16R-1035	$1 \times 5 \times 4 = 20$ $\begin{array}{r} 0 \\ 1 \\ 0 \\ 0 \\ 1 \\ \hline 2 \end{array}$ $20 \overline{) 2.000}$	$1 \times 2 \times 4 = 8$ $\begin{array}{r} 0 \\ 1 \\ 1 \\ \hline 1 \end{array}$ $8 \overline{) 1.000}$	$1 \times 3 \times 4 = 12$ $\begin{array}{r} 0 \\ 0 \\ 1 \\ 1 \\ \hline 1 \end{array}$ $12 \overline{) 1.000}$	$1 \times 4 \times 4 = 16$ $\begin{array}{r} 1 \\ 0 \\ 3 \\ 0 \\ 1 \\ \hline 1 \end{array}$
	10%	13%	8%	6%
			64	

PERCENTAGE LANGUAGE SKILLS
NOS 16R

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = number of variables in the cluster
R = number of respondents in any task in that cluster

FORMULA	LISTENING	SPEAKING	READING	WRITING
$\% = \frac{TR}{T} \times \frac{V}{R}$	-demonstration -lecture -hands-on -performance (test) -rating (scale)	-oral (test) -rating (scale)	-self-paced -written (test) -rating (scale)	-lecture -self-paced -written (test) -rating (scale)
Cluster	5 = 100%	2 = 100%	3 = 100%	4 = 100%
VEHICLE REPAIRING 441-16R-1036 441-16R-1047	$2 \times 5 \times 4 = 40$ $\begin{array}{r} 4 \\ 3 \\ 4 \\ 5 \\ 3 \\ \hline 19 \end{array}$ $40 \overline{) 76.000} \begin{array}{l} .475 \end{array}$	$2 \times 2 \times 4 = 16$ $\begin{array}{r} 2 \\ 3 \\ \hline 5 \end{array}$ $16 \overline{) 5.000} \begin{array}{l} .313 \end{array}$	$2 \times 3 \times 4 = 24$ $\begin{array}{r} 1 \\ 4 \\ 7 \\ \hline 12 \end{array}$ $24 \overline{) 12.000} \begin{array}{l} .500 \end{array}$	$2 \times 4 \times 4 = 32$ $\begin{array}{r} 3 \\ 1 \\ 4 \\ 5 \\ \hline 13 \end{array}$ $32 \overline{) 13.000} \begin{array}{l} .406 \end{array}$
	48%	31%	50%	41%
ISO METER MACH, NO. 600 441-16R-1046	$1 \times 5 \times 3 = 15$ $\begin{array}{r} 1 \\ 1 \\ 1 \\ 6 \\ 1 \\ \hline 10 \end{array}$ $15 \overline{) 4.000} \begin{array}{l} .267 \end{array}$	$1 \times 2 \times 3 = 6$ $\begin{array}{r} 0 \\ 1 \\ \hline 1 \end{array}$ $6 \overline{) 1.000} \begin{array}{l} .167 \end{array}$	$1 \times 3 \times 3 = 9$ $\begin{array}{r} 1 \\ 0 \\ 0 \\ 1 \\ \hline 2 \end{array}$ $9 \overline{) 1.000} \begin{array}{l} .111 \end{array}$	$1 \times 4 \times 3 = 12$ $\begin{array}{r} 1 \\ 0 \\ 0 \\ 1 \\ \hline 2 \end{array}$ $12 \overline{) 1.000} \begin{array}{l} .083 \end{array}$
	27%	17%	11%	8%
LEADERSHIP 441-16R-2007 441-16R-2008	$2 \times 5 \times 4 = 40$ $\begin{array}{r} 5 \\ 3 \\ 4 \\ 7 \\ 5 \\ \hline 24 \end{array}$ $40 \overline{) 24.000} \begin{array}{l} .600 \end{array}$	$2 \times 2 \times 4 = 16$ $\begin{array}{r} 2 \\ 5 \\ 7 \\ \hline 14 \end{array}$ $16 \overline{) 7.000} \begin{array}{l} .438 \end{array}$	$2 \times 3 \times 4 = 24$ $\begin{array}{r} 0 \\ 4 \\ 7 \\ \hline 11 \end{array}$ $24 \overline{) 11.000} \begin{array}{l} .458 \end{array}$	$2 \times 4 \times 4 = 32$ $\begin{array}{r} 3 \\ 4 \\ 4 \\ 4 \\ \hline 15 \end{array}$ $32 \overline{) 15.000} \begin{array}{l} .469 \end{array}$
	22%	44%	46%	47%

1.5

MOS 16R

TR = total number of responses to variables in the cluster
T = number of tasks in the cluster
V = variables
R = maximum number of respondents in any task in that cluster

[illegible]

APPENDIX 4

OBSERVATION FORMS

The attached forms were taken to the actual training where observers recorded actual training situations and language used in the training. These forms were used to indicate the CONDITIONS for the Job Language Performance Requirements in this MOS.

MOS OBSERVATION FORM

MOS 16 12 LOCATION 24 Blm T.C.
 TASK # Dent Prov PERSON RECORDING W. Brown
 SUBJECT _____

INSTRUCTION

Physical Environment

COMMENTS

- ☐ 1. Classroom
- ☐ 2. Open Areas (live fire field, make-up terrain)
- ☒ 3. Large enclosed area (bleacher sites, warehouse size)
- ☐ 4. Other (comments)

Instructional Ratio

- ☐ 1. Instruct or one-to-one/class
- ☐ 2. Peer/one-to-one
- ☐ 3. Group or Committee group¹
- ☐ 4. Small (12 or less)
- ☒ 5. Other (comments) Self-paced

MODES OF INSTRUCTION

COMMENTS

- ☐ 1. Films
- ☒ 2. Video cassettes
- ☐ 3. Graphic training aids (diagrams, etc.,)
- ☐ 4. Illustrations a) requiring reading
b) not requiring reading
- ☐ 5. Maps
- ☐ 6. Mock-ups
- ☐ 7. Models/Simulated
- ☐ 8. Real equipment
- ☐ 9. Transparencies

¹Group of instructors of whom one teaches one portion of the whole

- ___ 10. Tape cassettes
- ___ 11. Training publications: a) required
b) available
- ___ 12. Signs/notices
- ___ 13. P.A. System
- ___ 14. Normal Voice
- ___ 15. Soldier's Manual
- ___ 16. Chalkboard
- ___ 17. Other (comments)

MODES OF RESPONSE

COMMENTS

- ☒ 1. Manipulate equipment *Manipulate equipment*
- ___ 2. Performance
- ___ 3. Answers (spoken-written)
- ___ 4. Signals
- ___ 5. Taking notes
- ___ 6. Teamwork
- ___ 7. Other (comments)

STYLES OF COMMUNICATION²

COMMENTS

- ___ 1. Formal Speech
- ☒ 2. Informal Speech
- ___ 3. Regional/ethnic
- ___ 4. Body language
- ___ 5. Profanity
- ___ 6. Shop talk/slang
- ___ 7. Non-standard English
- ___ 8. Other (comments)

²Instruction, verbal orders

MOS _____

PERSON RECORDING _____

LOCATION
(UNIT/ATT) _____

SUBJECT _____ * TASK NUMBER IF KNOWN _____

Physical Environment of Instruction

- A. Classroom
 - B. Open Areas (live firefield- mark-up terrain)
 - C. Large enclosed area (bleacher sites)
(Warehouse size)
 - D. Other
- Comments:

Styles of Communication Instructor, Verbal orders

- A. Formal Speech
 - B. Informal Speech
 - C. Regional/Ethnic
 - D. Body Language
 - E. Profanity
 - F. Shop talk/slang
 - G. Non-standard English
 - I. Other
- Comments:

Media of Instruction

- A. Films
 - B. Video cassettes
 - C. Graphic Training Aids (diagrams, etc....)
 - D. Illustrations (requiring reading/not requiring reading)
 - E. Maps
 - F. Mock-ups
 - G. Models/Aimulate
 - H. Real equipment
 - I. Transparencies
 - J. Tape cassettes
 - K. Training Publications (required/available)
 - L. Signs/Notices
 - M. P.A. System
 - N. Normal Voice
 - O. Soldier's Manual
 - P. Chalkboard
 - Q. Other
- Comments:

Mode of Response

- A. Manipulating a piece of equipment/device
 - B. Answers (spoken - written)
 - C. Signals
 - D. Performance
 - E. Taking Notes
 - F. Teamwork
 - G. Other
- Comments:

Instructional Ratio

- A. Instructor; one-to-one/class
 - B. Peer/one-to-one
 - C. Group or Committee Group (group of instructors of whom one teaches one portion of the whole)
 - Small (12 or less)
 - Large (more than 12)
 - D. Other
 - E. Questions
- Comments:

75

APPENDIX 5

STRUCTURAL/LEXICAL LIST

Attached is the list of
structural and lexical items
for this MOS.
(For discussion, see Section II)

STRUCTURAL ITEMS

SENTENCE PATTERNS

SIMPLE: One subject and one predicate

1. Subject and action verb
Firer aims.
2. Subject and action verb and direct/indirect object
Many things cause burns.
3. Subject and linking verb and subjective complement
This is very important.

COMPOUND: Two or more sentences joined by:

1. Coordinating conjunction

Explain the task and ask the trainees if they understand the task, and the conditions they are expected to perform at the end of the session, the conditions under which they must operate, and the standard they must achieve.

2. Conjunctive adverb

Do not start or stop the vehicle while the radio is on or you may damage the set.

3. Semicolon

A light pressure is exerted on the driving spring when the bolt is forward; however, never attempt to cock the gun while the backplate is off and the driving spring assembly is in place.

COMPLEX: One or more dependent clauses

1. Adjectival (functions as an adjective by modifying nouns and pronouns)

At the bottom of the map you will find three different bar scales which will help you to change map distance to miles, meters, or yards.

2. Adverbial (functions as an adverb by modifying verbs, adjectives, and other adverbs) The mouth-to-nose method is performed in the same way except you blow into his nose while you pinch his lips closed with one hand.

3. Noun (functions as a noun) The person who is performing artificial respiration quickly blows into the casualty's lungs after each five compressions.

SENTENCE TYPES

1. INTERROGATIVE

(do, does, modal, wh-, tag, inverted)
But what about the other 15 meters?
Ask, "What is there?"

2. DECLARATIVE

Classified information will not be discussed over the telephone.

3. EXCLAMATORY

HALT!

4. IMPERATIVE

Issue the challenge in a soft voice and wait for the (requests, commands, second person (singular/plural, negative/affirmative), First and second person (let's)) stranger to reply with the correct password.

5. ELLIPSIS:

Split the bracket until fire for effect is possible. Most common type of ellipsis--subject deleted

6. FRAGMENT

Movement to occupy a position.
All other parts.

ADVERBIAL CLAUSES

1. PURPOSES

Training must be conducted so that at least 80% of the students can accomplish the task trained to the standards specified for the task.

2. CONTRAST

Although natural terrain features are likely not to change and make good reference points to orient a map, you may also use manmade features such as roads, bridges, etc., to orient your map.

3. COMPARISON

Place suitable material under him as well as over him if necessary.

4. RESULT

Blending is the use of camouflage materials on, over, and around an object so that it appears to be part of the background.

5. MANNER

Take deep breath and place mouth around soldier's mouth; then blow forcefully as you observe his chest.

6. TIME

When you have to go a certain distance on foot without any landmarks to guide you, you can measure distance pretty accurately by counting your paces.

Split the bracket until fire for effect is possible.

7. PLACE

Loosen clothing at neck, waist, and other places where it tends to bind.

8. CAUSE

Be careful not to depress the trigger, since this will cause the firing pin to be released.

9. ADVERSATIVE

The casualty has no fractures, but has a bleeding wound.

10. CONDITION

If it isn't, your rifle can still fire, but it could possibly explode, causing you harm.

PHRASES

1. GERUND

(upon) Hearing the correct password, give permission to pass if you have no other reasons to doubt.

2. PARTICIPIAL

Using a straightedge draw a line between the two objects.

3. INFINITIVE

To camouflage exposed skin paint the shiny areas with a dark color.

4. PREPOSITIONAL

Under certain light conditions, front sight ports can be seen, but you can't determine whether you are looking through, above, or to the side of the rear sight aperture.

LEXICAL ITEMS

ADJECTIVALS

"rifle bore cleaner"
"waste material"
"burning residue"
"semi-fixed ammunition"
"extracting/loading ammunition"
"firing hammer"
"four life-saving steps"
"chest/heart massage"
"tourniquet material"
"field material"
"field condition"
"mouth-to-mouth resuscitation"

ADJECTIVES

1. WORD + ABLE

AVAILABLE

2. COMPARATIVES

Threat main tanks are smaller than the US main battle tanks.

3. SUPERLATIVES

The most dangerous targets are those that see you, have the capability of killing you, and appear to be preparing to engage you.

PRONOUNS

1. INDEFINITE

Have someone walk the FDL (if enemy situation permits), and determine dead space (sections of FDL where individual drops below line of sight).

2. POSSESSIVE

Shake his shoulder and shout, "Are you OK.?"

3. SUBJECTIVE

This will give you correct nomenclature.

4. OBJECTIVE

It will also give you the correct functioning.

5. REFLEXIVE

Keep yourself clear of the muzzle.

VERBS

1. VERB TENSES

Make sure you clearly understand the task you are to teach.

--You will be tested.

--If they elect to take it, they must complete the test once they have begun the first event or else they will receive a NO GO for the entire test.

--If the soldier is breathing, mouth-to-mouth resuscitation is not necessary.

--When all 10 pebbles have been moved to the left pocket, you have traveled one kilometer.

--Have someone walk the FDL and determine dead space.

--Sensing is an instantaneous determination by the grenadier as to where the grenade exploded.

present progressive verb
present verb (uninflected, third
person, indicative)
past tense (regular/irregular)
present perfect
future

2. TYPES

intransitive
(You) train for results.

transitive
Mask the casualty.

linking
The skin becomes inflamed.

3. VOICE

active

recognize
protect
is facing
remove
explode
sounds
points out
seen

appear
seek
secure
wear
mask
stored
do require
could affect

has
must be
wipe
rinse
put brush
empty
reassemble
reinstall

passive

given
is protected
is sprayed

are alerted
are reported
have been corrected

are authorized
be corrected

passive+verb+ing
"task will be performed
using procedures"
modal+passive voice
"can be determined"
modal+negative+passive
"must not be eliminated"

4. MODALS

You must demonstrate, once every 6 months, that you can meet or exceed the minimum level of physical fitness required of each member of your unit in accordance with the standards contained in AR 600-9.

Personnel over the age of 40 may elect not to take the APFT. The pulse should be found in the soft area between the Adam's apple and the large muscle on the side of the neck.

Injury or death could result.

During surveillance the operator will have to adjust the range focus to get a sharp image at different ranges.

"might have to be placed"
"be"
"will be given"
"should be"
"must"
"must be"
"can"
"can be"
"may be"
"should not be"

5. AUXILIARIES

(do, does, negative)

Do not zero in under 100 meters.

If the round does not fall within 5 meters of target, zeroing procedures are called for.

GERUNDS

Sensing is an instantaneous determination by the grenadier as to where the grenade explodes with respect to the target.

INFINITIVES

To fire, hold the M16A1 in the rest with your right shoulder firmly against the weapon's butt plate.

ADVERBS +

1. SUPERLATIVE

When such a line of fire exists, the primary sector will be assigned, based on it, with the FDL being the sector limit closest to the friendly troops.

2. INDEFINITE

The launcher has a heavy coat of oil on working parts, and a light coat of oil elsewhere.

3. FREQUENCY

Apply a little graphite grease to the threads of the antenna section for easy removal and to prevent the sections from seizing if they have been rarely removed.

4. OTHER

Assembly procedure for the grenade launcher merely reverses disassembly steps.

5. COMPARATIVE

The care, cleaning, lubrication and adjustment of the mount used with the gun are no less important.

VERBS AND PREPOSITIONS

Line up the key in the receptacle with the slot in the cable connector.

VERBS AND ADVERB

(particles)

Put on the protective mask within nine seconds of the chemical alarm and remain in the contaminated area for at least two minutes without making further adjustments to the mask.

APPENDIX 6

VOCABULARY (DLIELC IN-HOUSE)

The following vocabulary list was extracted from the Soldier's Manual task by task and then categorized into GENERAL, BASIC AND TECHNICAL vocabulary.

1155 16R

R

T

G

TAX 1037

GOAR 15

visually

recognize

aircraft

environment

classroom

not

from

hostile

slides

projector

screen

slide projector

penet

paper

apply

identical principle

knowledge

induced

aircraft characteristics

to identify

know

similar

profile

studied

by comparison

known as

with emphasis

distinguishing features

80

Miss 16R

B

ASK 1037 cont'd

recognition

action

observation

~~overall configuration~~

image perception

familiarity with

recognizable features

distinguishing

bill measures

overall sample

recognizable features

desired identification range

squarish window

2!

WRS 16 R

B

T

Task 1038

Ref: TM 9-230-300-10; TM 9-1005-286-10-1

problem
children
all types
weather
members
dark sunlight
explosion

employment
task
night vision

boresighting procedure
Vulcan system
SP (only 1000 ft)
boresight
time of cannon
distant aiming point
of boresighting
night

82

Uos 162

G

B

T

TASK 1039

planned
interest
substance
reference
unusually available
appropriate
circumstances
usual conditions
unusual conditions
recognize
portion
accepting

prevailing maintenance
task
maintenance area
technical area
Supervision
efficiency

generator set
1.5kw, 28v
L4 Form 2000
normal indication
abnormal indication
maintenance personnel

72

Nov 16 R

S

T

Table 1040 Ref: 9-1430-549-12 & 9-1430-587-12 FFM 44-6 -

operator

task

employee

performed

supervision

branch order

conditions

target alert time high

weather conditions

forward area clearing radar

visibility

transmitting

subject

site

locate

best receiving conditions

your credit

orient

identify

magnetic compass

controls

the indicator

install

indicator

service

the range

relays

portrayed

target information

even number

radiating

matrix

76

G

B

T

Task 1041 Lf TM 9-1430-589-12

performance
weather conditions
normal
aircraft
cleaning materials
locate
control
communication between
sections
communication
operational position
to connect

preventive maintenance
corrective maintenance
technical areas
tools
reference
supervision
inspect
efficiency
adjustments
maintenance

operator checks and tests
targeted data display set
empowered
operational position
battery charging cables
DA Form 200
indicators
normal indicators
abnormal indicators
battery charging procedures
Data Link processor and
display group self-test check
operational position
DA Form 200
organized maintenance personnel

85

MOS 16 R

G

R

T

Task 1042

Ref: TM 9-1005-286-10-1 & 9-2352-220-10

program
hand protection
storage
hand tools
daily
isolation
area
protected
element location
availability
recognition
usage
hand tools
hand tools
hand tools

firing
tools
tactical situation
supervision
visually inspect
disassembly

Vulcan ammunition
M25 linker - linker
wounds
color coding
ammunition
long & short rounds
serviceability of rounds & linker
Ammunition handling, safety
procedures
linking and de-linking procedures
RT energy
electrical current
electrical potential energy
components of ammunition

U.S. 12 R

G

B

T

Task 1043 Proj: FMUS-2 444-5 & 44-100

Scoring

in area

in line

in line

in line

in line

in line

in line

in line

in line

in line

in line

in line

in line

to work

SPGing material

loading area

Task

to work

calm outflow materials

as appropriate

applied principles

cross

concurrent

light discipline

Verban firing position

Verban system

emplacement criteria

weapon system

emplace the system

800

WDS 16 12

G

B

T

Truck 1044

Ref: TM 21-306 # 9-2300-357-10 # 9-2350-300-10 -

operator
program
weather conditions

operative maintenance
administrative areas
tactical area

APC Subcom
SP Subcom

before

varied terrain

operations check
indicators

being

warning device

normal indicators

after

operating capabilities

abnormal indicators

locally

limitations

color monovision

control

correct deficiencies

control

tracked vehicle

discriminate between

managing

longer

observed condition

warning

towing

88

Mos 16R

G

B

T

TASK 1045 Ref TM 44-4

perform (ed)
key light house
binoculars
k. r. r.
no class
directing
recognize
identify

observer procedures
to wall
SP (full p. y. chd)
engaged
tactical area
task
communication equipment
develop & use
aircraft recognition

Vulcan
T4005
range cards
systematic search pat.

88

MOS 1612

TASK 1045 Ref: FM 23-65; TM 9-1005-215-10

Maintain
operate
outdoors
Weather
inspect
gun
adjust
destroy
know use
prepare
clean
observe
safety precaution

.50 caliber M2 machine gun

Task

administrative area

tactical area

rifle barrel cleaner

lubricating oil

mount (w/)

mount (w/)

traced vehicle

sights

disassemble

assemble

weapon

load

clear

reduce common stoppages

cock gun

backplate

engage targets

adjust fire

tracer observation

DA FORM 240V

Traversing & elevation

Mechanism

set & check

headspace adjusting

range card

90

MOS 16R

G

B

T

TASK 1047 Ref TM 9-2350-211-10 TM 21-305, TM 9-2320-211-10

operate

5 ton truck

84 Form 2400

maintain

test

log book

perform

terrain

engage transfer assembly

weather

temperature

operation check

type

road condition

front wind

cleaning materials

atmospheric condition

indicators

tool bit

the procedures

cargo (10 kg) + 1000

lubricants

lubrication procedures

parking operation

shift case

distances

operate truck

atmospheric

terrain

type

weather

cleaning

materials

tool bit

lubricants

shift case

operate truck

atmospheric

terrain

type

weather

cleaning

materials

tool bit

lubricants

shift case

operate truck

atmospheric

91

lms 1612

G

B

T

Tech 1048 P.1 TM 9-2320-200-10, 40 9-2320-300-10

perform
member
availability
clearing, maintenance
lubrication
supplies
location
control
drive
recognition
operation
adjust
adjust

PM check
service
operational
administrative area
technical area
squad
supervisor
tool bit
PM procedures
lubrication procedure

SP Vulcan 845 km
indicator
carrier
[equipment manual
criteria (SSC)
track tension

3

MVS 16 R

G

S

T

Task 1009 Kif

TM 9-2350-800-10

operation (60)

antennas

location

weather

available

position

direct sunlight

sequence

function

location

condition

present

normal

abnormal

condition

adjustments

range

operational

tactical area

tools

signal

sequence

firing

proper sequence

indications

deficiencies

preparation for firing procedure

SP Vulcan automatic system

night vision sight

indicators

Vulcan carrier device

charge battery system

99

Nov 10 12

C,

B

7

Tach 1050 Ref: TAC 9-2350-800-10 ; 409-2350-800-10

primary (100)

tach

SP Valve, water crossing

kinds

terrain

operation

require

lubrication

finding

fuel tank

operational procedure

amplifier, water tank

exit

same with

exit

like previous

water crossing (100)

carries

immediately after

water operation

carries

water crossing procedure

be more

water crossing procedure

AD-A121 079

JOB LANGUAGE PERFORMANCE REQUIREMENTS FOR MOS 16R SHORT 272
RANGE AIR DEFENSE. (U) DEFENSE LANGUAGE INST LACKLAND
AFB TX ENGLISH LANGUAGE CENTER. 01 JUL 78

UNCLASSIFIED

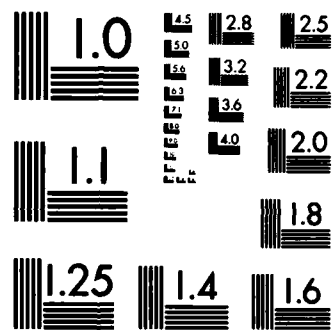
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NL

END

491 MEC-

RFM



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

MOSC 10R

6

15

7

Task 1051 R.A. TM 9-2350-200-10 # 40 (some H)

operate

unusual conditions

SP Vulcan system

operational

tactical area

Winterization kit

unusual

supervision

log books

element

procedures

geographical

condition

as well

as well

but weather

applicable to

to the area

as well

high humidity area

95

MDS 16R

G,

B

T

- TASK 1053
performed (ed)
logistics hours
darkness
darker
weather
available
open
close
equipment
movement
Cover
raise
operate
Scuba
aerial
formation
man
helmet
airing
able
chills
know

Ref: FM 54-5
employed
tactical area
T and
Squad
disposition
targets

SP Vulcan Squad Drill
handover
dismount
emergency dismount
dismount
dismounted food
carrier
operation check
profile check & procedures
ammunition down/lost task
auxiliary power unit (APU)
communication procedures

MOS 16R

E

E

T

TASK 105U Co, FM 44-5

performed
sections
all types
weather
weather
training purposes
within limitations
system
all conditions
rel or information
identifying
actions

employed
tactical area
Task

Squad
hostile fire
SOP
firing range
communication
preparation for firing
enemy aircraft

engaged in target
SP Vulcan System
air density, tactics
range, tactics
muzzle velocity, tactics
armament, tactics, tactics
engage targets
all modes
communication system
TADS
senior gunner
observe procedures
directing, tactics, tactics
gunner's gunner.

WWS 16 R

G

B

T

TASK 1055

Ref TM 9-2350-300-10

performance

day

night

weather conditions

visibility

inspect

empty drum

know

keep drum

employment

tactical area

task

squad

load

check T.O.

vacants

rechecked

ammo handling
procedures

[SP Vulcan ammunition location

procedures

SP Vulcan system

M25 linker detector

speed weapon

link / definite ammunition

ammunition storage order

electrically primed ammunition

RF energy

feed system

Mo-16R
R

T

6,
TRK 056

FM 44-100, TM 9-1005-286-10-1

operation
outdoors
all type
weather
perform
member
raise
lock
sense
apply power

emplace
@ immediate area
technical area
task
squad

March after
towed vehicle system
Gamma G-7
DA Form 2000
log book
antenna
stowed position
outtriggers
couple (to join)
carrier
auxiliary equipment
uncouple
set outtriggers & legs

10

hws 16 R

G

B

T

TASK 1057 Ref TM 9-1005-286-10-1

perform
conditions
prior to
making adjustments
properly
mechanically
Be aware of
precautions

employed
tactical area
task
target

firing interceptor adjustments
towed Vulcan
the mount
to track on
track
object to be protected
cover the sight
indirect fire

WWS 16R

G

B

T

TASK 1058 Tr 9-1005-286-10-1

operational

tactical areas

towed Vulcan

unusual condition

operational

partial radar jammer

partially operational

special purpose equipment

climate condition

sights, equipment

geographical condition

mount

warm-up

radar distribution

requirements

extreme cold

102

Nov 16 R

B

T

ASK 1059 Ref TM 9-1005-286-10-1

operate
maintain

imposed
tactical area

towed balloon anemometer equipment

log book

generator set (100)

barometer

M130 straight telescope

AN/TOS-2B night sight

sunrise gnomon

M25 link - distance

microphone headset

external house central

arm - sub. E. 100

DA Form 28-1

113

Wds 16 R

B

T

C
TASK 1060 Ref TM 9-2320-242-10; LO 9-2320-242-
perform
packed
cleaning material
lubricants
examine & adjust
normal
abnormal
condition.

Preventive Maintenance. *Stam G. Cat*
NA Form 242-1.

Mos 16R

B

T

← TAC 1061 Kly TM 9-2320-102-10, TM 21-805

operate

varies

road condition

function

location

control

instrument

stop

start

input

output

medium speed

0.5 sec

terrain condition

blastout

Gama 6.00

engage transfer assembly

maximum slope limitations

terrain procedures

W.C. H. R.

B

T

TRAIL 1962 TM 9-2325-202-10,60 1-2720-211-100

proton
shimmer
like pressures
spatial

provision

vehicle

sealed

checked

water current

tailgate

water tightness

factor
gamma point
access plugs
Leakage
locking depth
Velocity

1

Ref FM 46-100
encl. 1
2-11-68

found Helen, Sydney
 Sam & Gert
 and
 and school.
 found the
 firing interrupted by
 [proceeding
 target shot into the
 back order
 other procedures
 can be
 other procedures

NWS 16 R

B

T

R
TASK 260 Lt FM 44-100

family

engage
hostile fire
communication

airial targets
ground targets
towed targets
air targets
range table
muzzle velocity table
senior gunner
gunner quadrant

11/25/12

B

T

Task 1065 Ref TM 9-1025-28-10-1

per form

6 at

Sight

to 1000 ft

in 100 ft

velocity

reducer

detonated

Howed Verban

ammunition loading process

125 lb/hr

initia loading process

normal ammunition

link / det link

ASU

fuel system

electrically powered

~~detonated~~

7/1/12

ALOS 16 R

SKILL LEVEL II 7.500 200142.200

SAME AS 16 D $\neq$ P

MOE 16 R (SL II)

B

T

G

TASK 2009 Ref TM9-1005-286-10-2 or TM9-2350-300-10

perform
performing)
indicators
auditors
all types
weather
normally
performed
knew
location
function
control

task
components
maintenance procedure
PM procedures
duty procedures
deficiencies
scope
maintenance personnel

round internal pressure
maintenance
M168 cannon
Senior Gunner
Jalcan system
DA Form 2404
log book
indicators
cannon
clear
EXACT (EXACT) (EXACT) (EXACT)
held at clear & back position
logbook
round counter
indication

0. insure
proper
seamless
transitions
correct
observed
proper
use
recognizing
normal
abnormal
unidentified
to correct
recovered
reported

111

WDS 16K (SL II)

G

B

T

TASC 2012

Ref TM 9-1005-284-10-2

part 101 101

administrative area

troubleshooting

operational

tactical area

corrective maintenance

indoor

Talks

trained person

and door

Signal

Senior Engineer

all door

Subcontractor personnel

to be hit

1.2.2.1

maintainance personnel

Do not over

Senior material

log book

lubricants

indicators

know

indication

purpose

Carriage

control

Wenegate

how

radiation hazard

about

disposal

electrical system

service

know

disposal

be used

one car 1.1.1.

individual

convert

reported

complete

operation

to be used

Task 2010 (Cal 2)

abnormal

clean

inspect

system

proper

improvement

correct

needed

require

definition

maintain personnel

indication

optical system

consistency procedures

APPENDIX 7

Appendix 7 is the machine-generated vocabulary list. It was not useful for our purposes. It is included as a vocabulary reference.

H⁺ADQUARTERS

UNITED STATES ARMY TRAINING AND DOCTRINE COMMAND

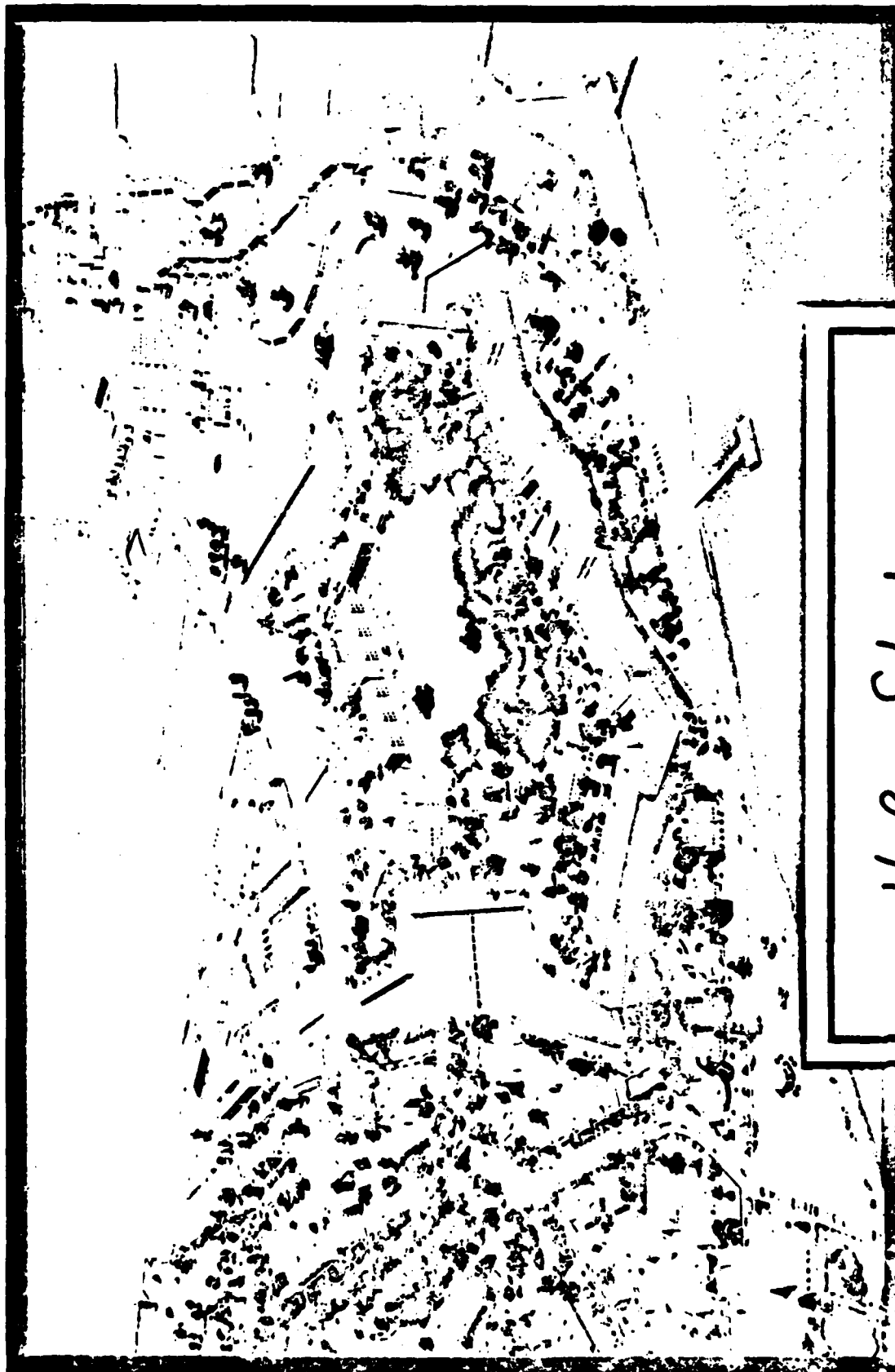
FORT MONROE, VIRGINIA 23651

DATA CONTROL NUMBER

Job No / Proj No

JUL 24 1980

WCA
DLI



16R SL1

SEQUENTIAL DATA .NAGER

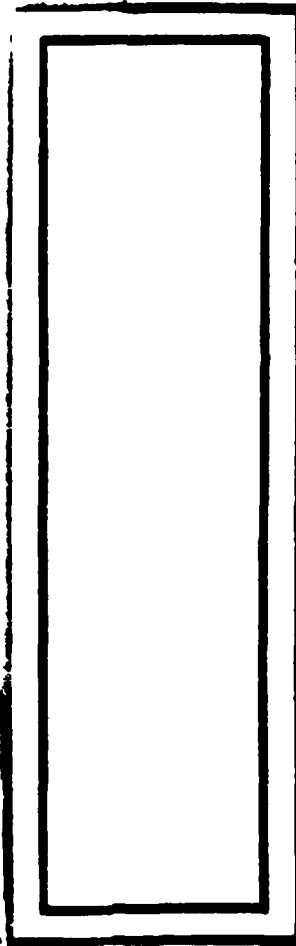
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HEADQUARTERS

UNITED STATES ARMY TRAINING AND DOCTRINE COMMAND

FORT MONROE, VIRGINIA 23651



16 R

SKILL 1

#1589

76 RECORDS

43 UNIQUE ITEMS

FREQUENCY DISTRIBUTION

1 A
1 ACCURACY
1 ALL
7 APPROPRIATION
1 AND

3 AS
3 RE
1 EV
2 CA
2 CHANGING

1 CLEAR
1 DETOURATED
1 ELECTRICALLY
1 ENERGY
1 FEED

1 FOR
2 FROM
1 HANDLING
1 LEFT
3 NEW

1 LOAD
2 LOADED
1 LOST
1 PUT
1 CONSERVE

1 PARAGRAPH
2 PARTIALLY
2 PLETHOR
1 PRINCE
1 PROCEDURE

3 PRICEDURES
1 RECHAMBERED
2 REEVALUATING
1 R
1 RUMORS

1 STANDARDS
1 SUPPLY
1 SYSTEM
3 THAT
4 THE

1 TH
2 TO
1 UNIT
2 WHEN
1 WILL

180451 L CRT PM
180451 INJNT 45, DELETE 45
180451 IMPROVING SNT PERFORMED
180451 HCU IN , DLT
180451 TDPUS APPLIED 1234
180451 END-SYNCSTMT OPT- M, THERO107/DUMP

UR9C70.11 (60162/800521 1927 FAST RETRIEVAL AND DATA MANIPULATION

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JOHN AVE. TRINITY STEEL, ST. STEPHEN

RD ARE SYSLINT	11:17:0641
RD ARE SYSLI	11:17:3401
RD ARE SYSLI?	11:17:0642
RD ARE SYSLI	11:17:0603

DSN=THE. WQKD.CNT

05H=5V5A0142, 7151349, RV00, THEHC1C7, KC000056

54P0L3330A

■ 475

SYSUT1 INPUT	SYSUT2 OUTPUT	SYSUT3 OUTPUT	SYSUT4 OUTPUT
LFRECL	LFRECL	LFRECL	LFRECL
BLKSIZE	BLKSIZE	BLKSIZE	BLKSIZE
45	30	133	0
6420	6420	133	0

00000000

c

C

WORD FREQUENCY DISTRIBUTION
FREQUENCY/WORD

FREQUENCY/WORD

FREQUENCY/WORD	FREQUENCY/WORD	FREQUENCY/WORD	FREQUENCY/WORD	FREQUENCY/WORD
7 AMPLIFICATION	4 THE	3 A	3 ASI	3
3 FE	3 KIDN	3 PROCEDURES	3 THAT	3
3 TO	2 CALL	2 CHARGING	2 FROM	2
2 LOADED	2 PARTIALLY	2 PERFORM	2 RELIABLE	2
2 OFF	1 ACCORDING	1 ALL	1 AND	1
1 BY	1 CLEAR	1 DETONATED	1 ELECTRICALLY	1
1 ENERGY	1 FEED	1 FOR	1 HANDLING	1
1 LEFT	1 LOAD	1 MUST	1 NOT	1
1 RESERVE	1 PARAGRAPH	1 PRIMED	1 PRECEDURE	1
1 RECHARGED	1 RE	1 ROUNDS	1 STANDARDS	1
1 SUPPLY	1 SYSTEM	1 TM	1 UNIT	1

"HEADQUARTERS

UNITED STATES ARMY TRAINING AND DOCTRINE COMMAND

FORT MONROE, VIRGINIA 23651

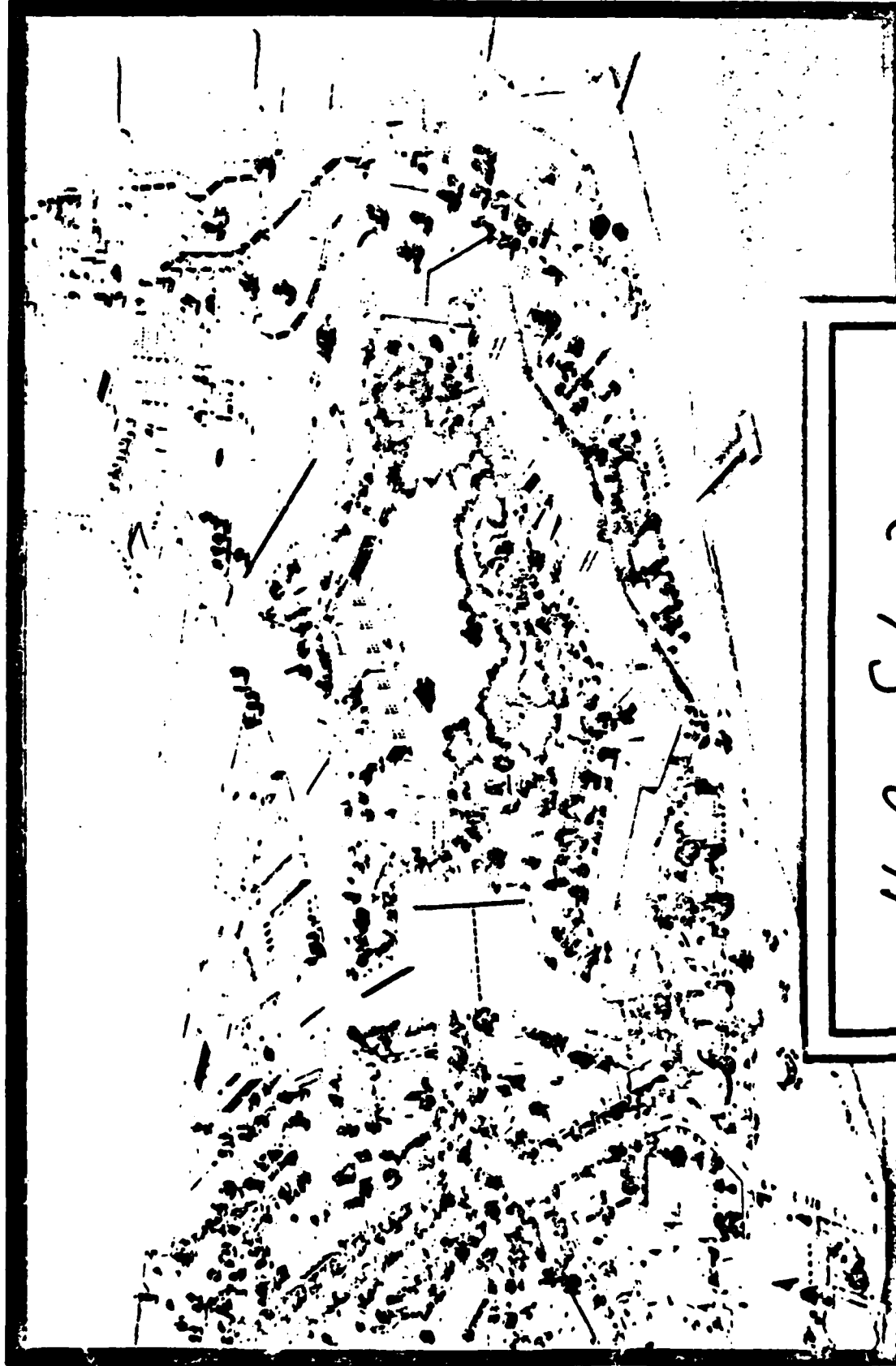
DATA CONTROL NUMBER

Job Proj No

JUL 24 1980

WCA

DLI



16R SL 2

23

[illegible]

23

MR. WCRD LIST BY PAGE

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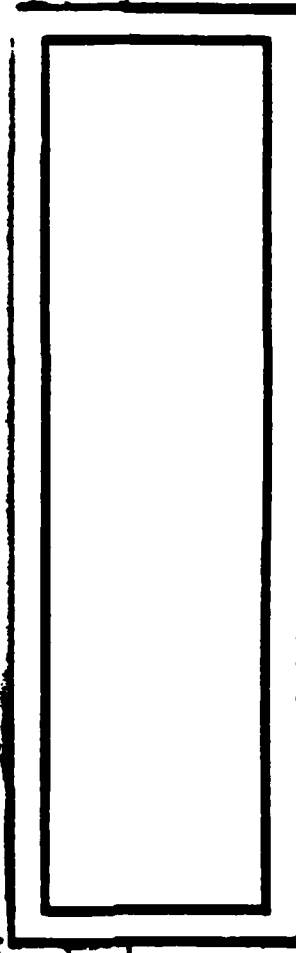
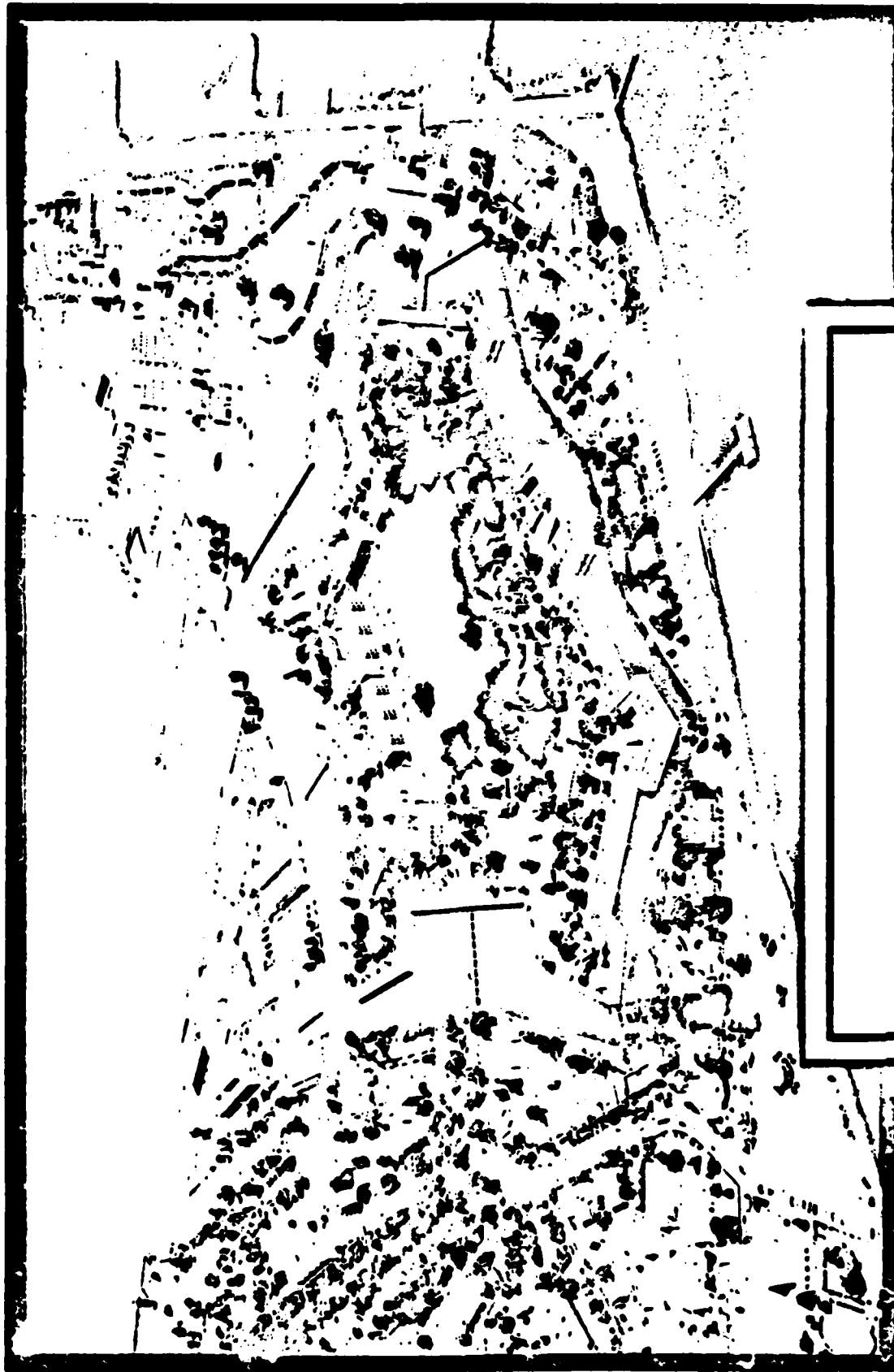
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APPENDIX 8

ENGLISH LANGUAGE STRUCTURES AND LEXICON

The following list is included as an addition to the structural and lexical list. These structures and lexical items are very basic.

(See Section II for discussion.)

LIST OF LEXICAL AND STRUCTURAL ITEMS FOR ENGLISH LANGUAGE STRUCTURES

Sentences:

- | | |
|------------------|-------------------------|
| A. Declarative | statement |
| B. Interrogative | question |
| | 1. wh- questions |
| | 2. tag questions |
| | 3. yes/no questions |
| C. Imperative | command, polite request |
| D. Exclamatory | exclamation |

Sentence Complexity:

- | | |
|---------------------|---|
| A. Simple | one full subject and predicate |
| B. Compound | two or more independent clauses joined by: |
| | 1. punctuation |
| | 2. punctuation and conjunctive adverb |
| | 3. coordinate conjunction |
| C. Complex | one or more dependent clauses and an independent clause |
| D. Compound-Complex | two or more independent clauses and one or more dependent clauses |

Verbs:

- | | |
|----------------------------|---|
| A. Concord | subject-verb agreement |
| B. Transitive | takes an object |
| C. Intransitive | doesn't take an object |
| D. Copula | to be |
| E. Linking | connectors |
| F. Auxiliaries of tense | will, do, did |
| G. Auxiliaries of modality | should, ought to, must to, have to, have got to, able to, can, may, might, could, would |
| H. Tense | present, past |
| I. Aspect | perfect, progressive |

Verbal Forms:

- | | |
|-----------------------|---------------|
| A. Present Participle | active voice |
| B. Past Participle | passive voice |

Voice:

- | | |
|------------------------|----------------------------|
| A. Active | subject does action |
| B. Passive | subject does not do action |
| 1. agent expressed | |
| 2. agent not expressed | |

Nouns:

A. Singular	man, pen
B. Plural	men, pens
C. Count	chairs
D. Mass	flour
E. Possessive	soldier's
F. Collective	fish

Adjectives:

A. Predicative	The tank is green.
B. Attributive	The green tank is moving.
C. Degrees of comparison	
1. regular	big, bigger
2. irregular	worse, worst
D. Ordinal/Cardinal Numbers	first, one

Adverbs:

A. Time/Frequency	immediately, today, ago
B. Place/Position	here, there, everywhere
C. Manner	maybe, possibly
D. Negative	no, never
E. Comparison of	nearest, harder
F. Degree	thoroughly, completely

Articles:

A. Definite	a, the
B. Indefinite	any, some

Pronouns:

A. Personal	you
B. Demonstrative	that
C. Indefinite	anybody, both, each
D. Reflexive	himself, yourself
E. Cases of	I, me, my, mine
F. Relative	who, whom, whose
G. Interrogative	who, which, what

Conjunctions:

A. Coordinating	and, but, or, nor
B. Subordinating	because, if, as, that, after
C. Correlative	either, or
D. Conjunctive adverb	therefore, furthermore

Prepositions:

A. Simple

- | | |
|----------------------------------|------------|
| 1. place | on, in |
| 2. time | in, at, on |
| 3. direction/motion | to |
| 4. manner/agent/
instrument | by, with |
| 5. measurement/
number amount | of |

B. Compound:

according to, because of, by means

Vocabulary:

words from 1100 through 2400 -
Elementary and Intermediate Phase of General
English materials

Special Expressions/Idioms

"knock it off" "can it, buddy"

Verb Combinations

two word verbs