

**STP 9-35L13-SM-TG**

**SOLDIER'S MANUAL AND  
TRAINER'S GUIDE**

---

**AVIONIC COMMUNICATIONS  
EQUIPMENT REPAIRER**

---

**MOS 35L**

**SKILL LEVELS 1, 2, 3**

**JANUARY 2005**

**HEADQUARTERS, DEPARTMENT OF THE ARMY**

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

**This publication is available at Army  
Knowledge Online ([www.us.army.mil](http://www.us.army.mil))  
and the General Dennis J. Reimer  
Training and Doctrine Digital Library at  
([www.adtdl.army.mil](http://www.adtdl.army.mil))**

# SOLDIER'S MANUAL and TRAINER'S GUIDE

## MOS 35L

### Avionic Communications Equipment Repairer

#### Skill Levels 1, 2, 3

#### CONTENTS

|   | <u>PAGE</u> |
|---|-------------|
| <b>PREFACE</b> .....  | <b>iv</b>   |
| <b>Chapter 1. Introduction</b> .....                              | <b>1-1</b>  |
| 1-1. General .....  | 1-1         |
| 1-2. Task Summaries .....   | 1-1         |
| 1-3. Soldier's Responsibilities .....                             | 1-2         |
| 1-4. NCO Self-Development and the STP .....                       | 1-2         |
| 1-5. Commander's Responsibilities.....                            | 1-2         |
| 1-6. Trainer's Responsibilities .....                             | 1-3         |
| 1-7. Training Support .....                                       | 1-3         |
| <b>Chapter 2. Trainer's Guide</b> .....                           | <b>2-1</b>  |
| 2-1. General .....  | 2-1         |
| 2-2. Subject Area Codes .....                                     | 2-3         |
| 2-3. Duty Position Training Requirements .....                    | 2-4         |
| 2-4. Critical Task List.....                                      | 2-5         |
| <b>Chapter 3. MOS/Skill Level Tasks</b> .....                     | <b>3-1</b>  |
| <b>Skill Level 1</b>  |             |
| <b>Subject Area 1: Intercommunications Control Sets</b>           |             |
| 093-35L-1102 Repair Communications System Control C-6533/ARC..... | 3-1         |

---

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

**Subject Area 2: FM Communications**

|              |  |     |
|--------------|--|-----|
| 093-35L-1202 | Repair Receiver-Transmitter RT-(*)/ARC-201(V)(*) | 3-3 |
| 093-35L-1203 | Repair Control, Radio Set C-(*)/ARC-201(V)(*)    | 3-4 |
| 093-35L-1204 | Repair Data Rate Adapter CV-3885/ARC-201(V)      | 3-5 |

**Subject Area 3: VHF Communications**

|              |   |     |
|--------------|---|-----|
| 093-35L-1302 | Repair Receiver-Transmitter RT-(*)/ARC-186(V)   | 3-6 |
| 093-35L-1303 | Repair Control, C-(*)/ARC-186(V)                | 3-7 |
| 093-35L-1304 | Repair Signal Data Comparator CM-(*)/ARC-186(V) | 3-8 |

**Subject Area 4: UHF Communications**

|              |   |     |
|--------------|---|-----|
| 093-35L-1402 | Repair Receiver-Transmitter RT-(*)/ARC-164(V) | 3-9 |
|--------------|---|-----|

**Subject Area 5: HF Communications**

|              |                                       |      |
|--------------|---------------------------------------|------|
| 093-35L-1501 | Repair Radio Set AN/ARC-220(*)        | 3-11 |
| 093-35L-1502 | Repair Airterm Security Device KY-100 | 3-12 |

**Subject Area 6: Maintenance Equipment**

|              |  |      |
|--------------|--|------|
| 093-35L-1601 | Restore Avionics Communications Maintenance Equipment  | 3-13 |
| 093-35L-1602 | Restore Test Facilities Kit MK-994A/AR                 | 3-15 |
| 093-35L-1603 | Restore Maintenance Group OA-9264A/ARC-201(V)          | 3-16 |
| 093-35L-1604 | Operate Avionics Electronics Shop Shelter (All Models) | 3-17 |

**Subject Area 7: Special Communications Section**

|              |  |      |
|--------------|--|------|
| 093-35L-1701 | Perform Serviceability Inspection of the AN/PRC-90(*)  | 3-18 |
| 093-35L-1702 | Perform Serviceability Inspection of the AN/PRC-112(*) | 3-19 |

**Skill Level 2****Subject Area 8: Technical Guidance**

|              |  |      |
|--------------|--|------|
| 093-35L-2801 | Provide Technical Guidance on FM Communications Systems                    | 3-20 |
| 093-35L-2802 | Provide Technical Guidance on VHF Communications Systems                   | 3-22 |
| 093-35L-2803 | Provide Technical Guidance on UHF Communications Systems                   | 3-23 |
| 093-35L-2804 | Provide Technical Guidance on HF Communications Systems                    | 3-24 |
| 093-35L-2805 | Provide Technical Guidance on Intercommunications Systems (ICS)            | 3-25 |
| 093-35L-2806 | Provide Technical Guidance on Avionic Communications Maintenance Equipment | 3-26 |
| 093-35L-2807 | Provide Technical Guidance on Avionic Special Communications Equipment     | 3-28 |

**Subject Area 9: Avionic Shop Duties**

|              |  |      |
|--------------|--|------|
| 093-35L-2808 | Maintain a Publications Library  | 3-29 |
| 093-35L-2809 | Verify Operation of Avionics/Electronics Shop Shelter AN/ASM-146 or AN/ASM-147 | 3-31 |
| 093-35L-2810 | Verify Operation of Avionics/Electronics Shop Shelter AN/ASM-189 or AN/ASM-190 | 3-32 |

**Skill Level 3**

**Subject Area 10: Shop Supervisor Specific Duties**

|                   |  |                     |
|-------------------|--|---------------------|
| 093-SSG-3001      | Inspect Section/Shop Safety.....   | 3-33                |
| 093-SSG-3002      | Manage Section/Shop Security .....   | 3-35                |
| 093-SSG-3003      | Maintain Section/Shop Calibration Program.....                                     | 3-36                |
| 093-SSG-3004      | Submit a Quality Deficiency Report (QDR) .....                                     | 3-38                |
| 093-SSG-3005      | Submit Equipment Improvement Recommendation (EIR).....                             | 3-41                |
| 093-SSG-3006      | Plan Work Flow.....  | 3-42                |
| 093-SSG-3007      | Direct Performance of Preventive Maintenance .....                                 | 3-43                |
| 093-SSG-3008      | Provide Technical Assistance to Repairers .....                                    | 3-45                |
| 093-SSG-3009      | Perform Initial Inspections .....  | 3-46                |
| 093-SSG-3010      | Perform Final Inspections .....  | 3-47                |
| 093-SSG-3011      | Write a Standing Operating Procedure (SOP).....                                    | 3-48                |
| 093-SSG-3012      | Perform In-Process Inspections.....  | 3-50                |
| 093-SSG-3013      | Maintain Property Accountability .....   | 3-51                |
| 093-SSG-3014      | Assess Battlefield Damage.....   | 3-52                |
| 093-SSG-3015      | Manage Demand Supported Repair Parts Listed on the Prescribed Load List (PLL)..... | 3-54                |
| 093-SSG-3016      | Monitor Bench Stock Operations .....   | 3-55                |
| 093-SSG-3017      | Monitor Shop Stock Operations.....   | 3-56                |
| 093-SSG-3019      | Inspect Maintenance Support Team Operations .....                                  | 3-57                |
| 093-SSG-3020      | Inspect Maintenance Reporting and Management Data .....                            | 3-58                |
| 093-SSG-3021      | Review SAMS-1 Reports .....  | 3-60                |
| <b>Appendix A</b> | .....  | <b>A-1</b>          |
| <b>Appendix B</b> | .....  | <b>B-1</b>          |
| <b>Glossary</b>   | .....  | <b>Glossary-1</b>   |
| <b>References</b> | .....  | <b>References-1</b> |

## PREFACE

This STP is intended for soldiers holding MOS 35L, Skill Levels 1, 2, and 3, their supervisors, trainers, and commanders. It contains an MOS training plan that provides information needed to plan, conduct, and evaluate unit training, one of the most important jobs of military leaders. It includes standardized training objectives in the form of task summaries that can be used to train and evaluate soldiers on critical tasks supporting unit missions during wartime.

Soldiers holding MOS 35L should have access to this publication. Trainers and first-line supervisors should actively plan for soldiers' access, making it available in work areas, unit learning centers, and unit libraries. However, it is not intended for an individual copy to be provided to each MOS holder. The STP is obtainable on-line from the RDL at <http://www.adtdl.army.mil/atdls.htm>.

Tasks in this manual apply to Active Army, Army Reserve, and Army National Guard soldiers.

The proponent of this publication is HQ TRADOC. Submit comments and recommendations on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Department of the Army, Training Directorate, Ordnance Training Division, ATTN: ATCL-AO, 401 First Street, Suite 225, Fort Lee, VA 23801-1511.

Unless this publication states otherwise, masculine nouns and pronouns do not refer exclusively to men.

## CHAPTER 1

### Introduction

1-1. General. This STP identifies individual MOS training requirements for soldiers holding MOS 35L. Commanders, trainers, and soldiers should use it to plan, conduct, and evaluate individual training in units. The STP is the primary MOS reference for supporting self-development, evaluating MOS proficiency, and training of 35L soldiers. Commanders employ two primary methods to evaluate soldiers' proficiency:

- Commander's evaluation. Commander's evaluations are local tests or assessments of soldiers' performance of MOS specific and common tasks critical to the unit mission. They may be conducted year-round.
- Common task test. CTTs are hands-on tests used to evaluate proficiency on common tasks. Alternate written tests are provided if equipment is not available for hands-on testing.

This publication is the soldier's primary reference to prepare for a commander's evaluation of MOS specific tasks. It contains task summaries for all critical tasks specific to the MOS and SL. Commanders and trainers will use this SM/TG to plan and conduct training and commander's evaluations.

Chapter 2, Trainer's Guide, contains information needed to plan training requirements for this MOS. The trainer's guide--

- Identifies subject areas in which soldiers must be trained.
- Identifies critical tasks for each subject area.
- Specifies where soldiers are initially trained on each task.
- Recommends how often each task should be trained to sustain proficiency.
- Recommends a strategy for cross-training soldiers.
- Recommends a strategy for training soldiers to perform higher-level tasks.

Use this STP along with STP 21-1-SMCT (Soldier's Manual of Common Tasks, Skill Level 1), STP 21-24-SMCT (Soldier's Manual of Common Tasks, Skill Levels 2-4), Army training and evaluation programs (ARTEPs), FM 25-4 (How to Conduct Training Exercises), FM 25-5 (Training for Mobilization and War), FM 7-0 (Training the Force), and FM 7-1 (Battle-Focused Training) to establish effective training plans and programs that integrate soldier, leader, and collective tasks.

1-2. Task Summaries. Task summaries outline wartime performance requirements for each critical task in the STP. They provide both soldier and trainer with the information necessary to prepare, conduct, and evaluate critical task training. As a minimum, task summaries include information soldiers must know and skills they must perform to standard for each task. Following is the task summary format:

- Task number. The task number is a 10-digit number that identifies the task and skill level. Include the task number and title in any correspondence relating to the task.
- Task title. The task title identifies the action to be performed.
- Conditions. The task conditions statement describes the field or garrison conditions under which the task will be performed and identifies the equipment, tools, references, job aids, and supporting personnel that the soldier needs to perform the task in wartime.

- **Standards.** The task standards describe how well and to what level of proficiency the soldier must perform the task under wartime conditions. Standards are typically expressed in terms of accuracy, completeness, duration, sequence, speed, and tolerance.
- **Performance measures.** This section identifies specific actions that the soldier must accomplish to complete the task successfully. Performance measures appear in a GO/NO-GO rating format for easy evaluation. Some tasks may also include detailed training information in a Training Information Outline and an Evaluation Preparation Section. The Evaluation Preparation Section indicates necessary modifications to task performance in order to train and evaluate a task that cannot be trained to the wartime standard under wartime conditions. It may also include special training and evaluation preparation instructions to accommodate these modifications and any instructions that should be given to the soldier before evaluation.
- **References.** This section identifies references that provide more detailed explanations of task performance requirements than are given in the task summary.
- **Warnings.** Warnings alert users to the possibility of immediate personal injury or equipment damage.
- **Notes.** Notes provide additional supportive explanations or tips relating to task performance.

1-3. Soldier's Responsibilities. Each soldier is responsible for performing individual tasks identified by the first-line supervisor based on the unit's METL. Soldiers must perform tasks to the standards included in the task summary. If soldiers have questions about tasks or which tasks in this manual they must perform, they are responsible for asking their first-line supervisor for clarification. First-line supervisors know how to perform each task or can direct soldiers to appropriate training materials, including current field manuals, technical manuals, and Army regulations. Soldiers are responsible for using these materials to maintain performance. They are also responsible for maintaining performance of all common tasks listed in the SMCTs at their current skill level and below.

Periodically, soldiers should ask their supervisor or another soldier to check their performance to ensure that they can perform the tasks.

1-4. NCO Self-Development and the STP. Self-development is a key component of leader development. Leaders follow planned, progressive, sequential self-development programs developed by the individual NCO and his or her first-line supervisor to enhance and sustain military competencies. Self-development consists of individual study, research, professional reading, practice, and self-assessment. The self-development concept requires NCOs, as Army professionals, to take responsibility for remaining current in all phases of their MOS. The STP is the NCO's primary source for maintaining MOS proficiency.

Another important resource for self-development is the AIPD, which administers many distributed learning courses and the ACCP. The AIPD web site <http://www.atsc.army.mil/accp/aipdnew.asp> provides course listings with detailed eligibility requirements and enrollment information.

1-5. Commander's Responsibilities. Commanders must ensure that their unit training plans prepare the unit for war by enabling soldiers to develop and sustain proficiency in their MOS and skill level tasks. Commanders should design unit-training programs to provide individual training for all soldiers assigned to the unit and to evaluate soldier proficiency routinely as part of the commander's evaluation program. The unit-training program should also integrate individual training with crew drills and other collective training. The MOS training plan provides information on which to base integration, cross-train, train-up, and sustainment training programs. Commanders should use the MOS training plan when developing unit training plans.



1-6. Trainer's Responsibilities. Training is the business of all unit leaders. First-line leaders are the principal trainers in the unit because they directly supervise soldiers and lead crews, squads, sections, and teams.

Trainers can use the MOS training plan to determine the critical tasks each soldier is responsible for. They should tell each soldier which tasks he or she must be able to perform. Trainers should evaluate task performance to determine which tasks each soldier can or cannot perform to standard. Soldiers who cannot perform a task to standard need further training. This STP helps the trainer do what trainers get paid to do train. Developing effective training is explained in detail in FM 7-0 and FM 7-1.

Every task summary in this STP includes performance measures that trainers may use year-round to determine if soldiers can perform critical tasks to the specified standards. The performance measures identify what the trainer needs to observe to score a soldier's performance. A blank space is provided for the trainer to check either the GO or NO-GO column for each performance measure. Some tasks require the trainer to watch the soldier perform them (evaluate the process). Other tasks call for the trainer to focus on the results of the soldier's performance (evaluate the product). Comments should not be written on the task summary.

Trainers can monitor the progress of their soldiers by recording task GO/NO-GO results. Trainers may use DA Form 5164-R (Hands-On Evaluation) to record the performance measures a soldier passed or failed. The form, which may be locally reproduced, applies to all tasks in this STP. Trainers may have DA Form 5164-R overprinted with information unique to their training requirements before reproducing it. See Appendix A for instructions on how to obtain and fill out a copy of a DA Form 5164-R.

Trainers may use DA Form 5165-R (Field Expedient Squad Book) to record hands-on GO/NO-GO results for a group of soldiers (for example, a crew, section, or squad) having the same MOS and skill level. This form supports conduct of commander's evaluations, and can be used to record training results gathered in the field during slack time for all MOSs and skill levels. Use of this form is optional. See Appendix B for instructions on how to obtain and fill out a copy of a DA Form 5165-R. Trainers should work with each soldier until tasks can be performed to specific task summary standards.

1-7. Training Support. References have been identified for each task to assist in planning and conducting training. A consolidated list of references identified by type, publication number, and title and a comprehensive glossary of acronyms, abbreviations, and definitions are included in this STP.

**This Page intentionally left blank.**

**CHAPTER 2**

**Trainer's Guide**

2-1. General. The MOS training plan identifies the essential components of a unit training plan for individual training. Units have different training needs and requirements based on differences in environment, location, equipment, dispersion, and similar factors. Therefore, the MOS training plan should be used as a guide for conducting unit training and not a rigid standard. The MOS training plan consists of two parts. Each part is designed to assist the commander in preparing a unit training plan that satisfies integration, cross training, training up, and sustainment training requirements for soldiers in this MOS.

Part One of the MOS training plan shows the relationship of an MOS skill level between duty position and critical tasks. These critical tasks are grouped by task commonality into subject areas.

Section I lists subject area numbers and titles used throughout the MOS training plan. These subject areas are used to define the training requirements for each duty position within an MOS.

Section II identifies the total training requirement for each duty position within an MOS and provides a recommendation for cross training and train-up/merger training.

- **Duty Position Column.** This column lists the duty positions of the MOS, by skill level, which have different training requirements.
- **Subject Area Column.** This column lists, by numerical key (see Section I), the subject areas a soldier must be proficient in to perform in that duty position.
- **Cross Train Column.** This column lists the recommended duty position for which soldiers should be cross-trained.
- **Train-up/Merger Column.** This column lists the corresponding duty position for the next higher skill level or MOSC the soldier will merge into on promotion.

Part Two lists, by general subject areas, the critical tasks to be trained in an MOS and the type of training required (resident, integration, or sustainment).

- **Subject Area Column.** This column lists the subject area number and title in the same order as Section I, Part One of the MOS TRAINING PLAN.
- **Task Number Column.** This column lists the task numbers for all tasks included in the subject area.
- **Title Column.** This column lists the task title for each task in the subject area.
- **Training Location Column.** This column identifies the training location where the task is first trained to soldier training publications standards. If the task is first trained to standard in the unit, the word "Unit" will be in this column. If the task is first trained to standard in the training base, it will identify, by brevity code (ANCOC, BNCOC, etc.), the resident course where the task was taught. Figure 2-1 contains a list of training locations and their corresponding brevity codes.

|              |                              |
|--------------|------------------------------|
| <b>BNCOC</b> | Basic NCO Course             |
| <b>UNIT</b>  | Trained in the Unit          |
| <b>AIT</b>   | Advanced Individual Training |
| <b>BCT</b>   | Basic Combat Course          |

Figure 2-1. Training Locations

- **Sustainment Training Frequency Column.** This column indicates the recommended frequency at which the tasks should be trained to ensure soldiers maintain task proficiency. Figure 2-2 identifies the frequency codes used in this column.

|           |                |
|-----------|----------------|
| <b>BA</b> | - Biannually   |
| <b>AN</b> | - Annually     |
| <b>SA</b> | - Semiannually |
| <b>QT</b> | - Quarterly    |
| <b>MO</b> | - Monthly      |
| <b>BW</b> | - Biweekly     |
| <b>WK</b> | - Weekly       |

Figure 2-2. Sustainment Training Frequency Codes

- **Sustainment Training Skill Level Column.** This column lists the skill levels of the MOS for which soldiers must receive sustainment training to ensure they maintain proficiency to soldier's manual standards.

2-2. Subject Area Codes.

**Skill Level 1**

- 1 Intercommunications Control Sets
- 2 FM Communications
- 3 VHF Communications
- 4 UHF Communications
- 5 HF Communications
- 6 Maintenance Equipment
- 7 Special Communications Section

**Skill Level 2**

- 8 Technical Guidance
- 9 Avionic Shop Duties

**Skill Level 3**

- 10 Shop Supervisor Specific Duties

2-3. Duty Position Training Requirements.

| <b>SKILL LEVEL</b> | <b>DUTY POSITION</b>                                       | <b>SUBJECT AREA</b> | <b>CROSS TRAINING</b> | <b>TRAIN-UP MERGER</b> |
|--------------------|--|---------------------|-----------------------|------------------------|
| SL1                | Avionics<br>Communications<br>Equipment<br>Repairer        | 1-7                 | NA                    | 35L20                  |
| SL2                | Avionics<br>Communications<br>Equipment<br>Repairer        | 8-9                 | NA                    | 35L30                  |
| SL3                | Senior/Avionics<br>Communications<br>Equipment<br>Repairer | 10                  | NA                    | 35W40                  |

2-4. Critical Task List.

**MOS TRAINING PLAN  
35L13**

**CRITICAL TASKS**

| Task Number   | Title   | Training Location | Sust Tng Freq | Sust Tng SL |
|---|---|-------------------|---------------|-------------|
| <b>Skill Level 1</b>                                    |   |                   |               |             |
| <b>Subject Area 1. Intercommunications Control Sets</b> |   |                   |               |             |
| 093-35L-1102  | Repair Communications System Control C-6533/ARC                 | AIT               | SA            | 1-3         |
| <b>Subject Area 2. FM Communications</b>                |   |                   |               |             |
| 093-35L-1202  | Repair Receiver-Transmitter RT-(*)/ARC-201(V)(*)                | AIT               | SA            | 1-3         |
| 093-35L-1203  | Repair Control, Radio Set C-(*)/ARC-201(V)(*)                   | AIT               | SA            | 1-3         |
| 093-35L-1204  | Repair Data Rate Adapter CV-3885/ARC-201(V)                     | AIT               | SA            | 1-3         |
| <b>Subject Area 3. VHF Communications</b>               |   |                   |               |             |
| 093-35L-1302  | Repair Receiver-Transmitter RT-(*)/ARC-186(V)                   | AIT               | SA            | 1-3         |
| 093-35L-1303  | Repair Control, C-(*)/ARC-186(V)                                | UNIT              | SA            | 1-3         |
| 093-35L-1304  | Repair Signal Data Comparator CM-(*)/ARC-186(V)                 | UNIT              | SA            | 1-3         |
| <b>Subject Area 4. UHF Communications</b>               |   |                   |               |             |
| 093-35L-1402  | Repair Receiver-Transmitter RT-(*)/ARC-164(V)                   | AIT               | SA            | 1-3         |
| <b>Subject Area 5. HF Communications</b>                |   |                   |               |             |
| 093-35L-1501  | Repair Radio Set AN/ARC-220(*)                                  | AIT               | SA            | 1-3         |
| 093-35L-1502  | Repair Airterm Security Device KY-100                           | UNIT              | SA            | 1-3         |
| <b>Subject Area 6. Maintenance Equipment</b>            |   |                   |               |             |
| 093-35L-1601  | Restore Avionics Communications Maintenance Equipment           | UNIT              | SA            | 1-3         |
| 093-35L-1602  | Restore Test Facilities Kit MK-994A/AR                          | AIT               | SA            | 1-3         |
| 093-35L-1603  | Restore Maintenance Group OA-9264A/ARC-201(V)                   | AIT               | SA            | 1-3         |
| 093-35L-1604  | Operate Avionics Electronics Shop Shelter (All Models)          | UNIT              | SA            | 1-3         |
| <b>Subject Area 7. Special Communications Section</b>   |   |                   |               |             |
| 093-35L-1701  | Perform Serviceability Inspection of the AN/PRC-90(*)           | UNIT              | SA            | 1-3         |
| 093-35L-1702  | Perform Serviceability Inspection of the AN/PRC-112(*)          | AIT               | QT            | 1-3         |
| <b>Skill Level 2</b>                                    |   |                   |               |             |
| <b>Subject Area 8. Technical Guidance</b>               |   |                   |               |             |
| 093-35L-2801  | Provide Technical Guidance on FM Communications Systems         | UNIT              | SA            | 2-3         |
| 093-35L-2802  | Provide Technical Guidance on VHF Communications Systems        | UNIT              | SA            | 2-3         |
| 093-35L-2803  | Provide Technical Guidance on UHF Communications Systems        | UNIT              | SA            | 2-3         |
| 093-35L-2804  | Provide Technical Guidance on HF Communications Systems         | UNIT              | SA            | 2-3         |
| 093-35L-2805  | Provide Technical Guidance on Intercommunications Systems (ICS) | UNIT              | SA            | 2-3         |

**CRITICAL TASKS**

| <b>Task Number</b>                                      | <b>Title</b>   | <b>Training Location</b> | <b>Sust Tng Freq</b> | <b>Sust Tng SL</b> |
|---|--|--------------------------|----------------------|--------------------|
| 093-35L-2806  | Provide Technical Guidance on Avionic Communications Maintenance Equipment     | UNIT                     | SA                   | 2-3                |
| 093-35L-2807  | Provide Technical Guidance on Avionic Special Communications Equipment         | UNIT                     | SA                   | 2-3                |
| <b>Subject Area 9. Avionic Shop Duties</b>              |  |                          |                      |                    |
| 093-35L-2808  | Maintain a Publications Library  | UNIT                     | SA                   | 2-3                |
| 093-35L-2809  | Verify Operation of Avionics/Electronics Shop Shelter AN/ASM-146 or AN/ASM-147 | UNIT                     | SA                   | 2-3                |
| 093-35L-2810  | Verify Operation of Avionics/Electronics Shop Shelter AN/ASM-189 or AN/ASM-190 | UNIT                     | SA                   | 2-3                |
| <b>Skill Level 3</b>                                    |  |                          |                      |                    |
| <b>Subject Area 10. Shop Supervisor Specific Duties</b> |  |                          |                      |                    |
| 093-SSG-3001  | Inspect Section/Shop Safety  | BNCOC                    | QT                   | 3                  |
| 093-SSG-3002  | Manage Section/Shop Security   | BNCOC                    | QT                   | 3                  |
| 093-SSG-3003  | Maintain Section/Shop Calibration Program                                      | BNCOC                    | QT                   | 3                  |
| 093-SSG-3004  | Submit a Quality Deficiency Report (QDR)                                       | BNCOC                    | QT                   | 3                  |
| 093-SSG-3005  | Submit Equipment Improvement Recommendation (EIR)                              | BNCOC                    | QT                   | 3                  |
| 093-SSG-3006  | Plan Work Flow   | BNCOC                    | QT                   | 3                  |
| 093-SSG-3007  | Direct Performance of Preventive Maintenance                                   | BNCOC                    | QT                   | 3                  |
| 093-SSG-3008  | Provide Technical Assistance to Repairers                                      | BNCOC                    | QT                   | 3                  |
| 093-SSG-3009  | Perform Initial Inspections  | BNCOC                    | QT                   | 3                  |
| 093-SSG-3010  | Perform Final Inspections  | BNCOC                    | QT                   | 3                  |
| 093-SSG-3011  | Write a Standing Operating Procedure (SOP)                                     | BNCOC                    | QT                   | 3                  |
| 093-SSG-3012  | Perform In-Process Inspections   | BNCOC                    | QT                   | 3                  |
| 093-SSG-3013  | Maintain Property Accountability   | BNCOC                    | QT                   | 3                  |
| 093-SSG-3014  | Assess Battlefield Damage  | BNCOC                    | QT                   | 3                  |
| 093-SSG-3015  | Manage Demand Supported Repair Parts Listed on the Prescribed Load List (PLL)  | BNCOC                    | QT                   | 3                  |
| 093-SSG-3016  | Monitor Bench Stock Operations   | BNCOC                    | QT                   | 3                  |
| 093-SSG-3017  | Monitor Shop Stock Operations  | BNCOC                    | QT                   | 3                  |
| 093-SSG-3019  | Inspect Maintenance Support Team Operations                                    | BNCOC                    | QT                   | 3                  |
| 093-SSG-3020  | Inspect Maintenance Reporting and Management Data                              | BNCOC                    | QT                   | 3                  |
| 093-SSG-3021  | Review SAMS-1 Reports  | BNCOC                    | QT                   | 3                  |



**CHAPTER 3****MOS/Skill Level Tasks**

## Skill Level 1

## Subject Area 1: Intercommunications Control Sets

**Repair Communications System Control C-6533/ARC****093-35L-1102**

**Conditions:** A C-6533/ARC and a maintenance request form have been turned in to the avionics shop. Your supervisor has directed you to restore the control to operational status, given the following: Communications System Control C-6533/ARC; Test Facilities Kit MK-994A/AR; Radio Test Set AN/GRM-114A; Headset-Microphone H-157A/AIC; Resistor, 150-ohm, .5-watt, 5-percent; Resistor, 200-ohm, .5-watt, 5-percent; Digital Multimeter AN/USM-486; Tool Kit TK-105/G; Function Generator SG-1288/G; Power Supply PP-1104(\*); applicable repair parts; DA Form 2407; local SOP; TM 11-5895-1174-23; DA Pam 738-750; and TB 385-4. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Restored the communications system control to operational status in accordance with the references listed in the performance measures.

**Performance Measures**

NOTE: PMs 3 through 9 refer to TM 11-5895-1174-23. Observe all safety precautions in accordance with TM 11-5895-1174-23, TB 385-4, and local SOP.

|   | <u>GO</u> | <u>NO GO</u> |
|---|-----------|--------------|
| 1. Analyzed deficiencies or symptoms listed on maintenance request form. (Refer to DA Pam 738-750.) | —         | —            |
| 2. Performed visual inspection.   | —         | —            |
| 3. Connected test equipment.  | —         | —            |
| 4. Performed basic test.  | —         | —            |
| 5. Proceeded to Table 3-6 if control passed basic test.   | —         | —            |
| 6. Performed corrective action as needed.   | —         | —            |
| 7. If corrective action corrected deficiency, proceeded to PM 4; if not, proceeded to PM 8.         | —         | —            |
| 8. Removed/installed faulty component/subassembly/circuit card.                                     | —         | —            |
| 9. If deficiency was corrected, proceeded to PM 4; if not, proceeded to PM 10.                      | —         | —            |
| 10. Completed maintenance request form. (Refer to DA Pam 738-750.)                                  | —         | —            |
| 11. Requested final inspection. (Refer to local SOP.)   | —         | —            |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed (P). Score the soldier NO-GO if any performance measure is failed (F). If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

DA FORM 2407

DA PAM 738-750

TB 385-4

TM 11-5895-1174-23

**Related**

Subject Area 2: FM Communications

**Repair Receiver-Transmitter RT-(\*)/ARC-201(V)(\*)  
093-35L-1202**

**Conditions:** An RT- (\*)/ARC-201(V)(\*) and a maintenance request form have been turned in to your avionics shop. Your supervisor has directed that you restore the RT to operational status, given the following: Receiver Transmitter RT-(\*)/ARC-201(V)(\*); Signal Generator SG-1112(V)1/U; Function Generator SG-1171(V)1/U; Oscilloscope AN/USM-488; Digital Multimeter AN/USM-486; Maintenance Group OA-9264A/ARC-201(V); Frequency Counter TD-1225(V)1/U; Fill Device MX-18290/VRC or MX-10579/VRC; Power Supply PP-1104(\*); Tool Kit TK-105/G; applicable repair parts; DA Form 2407; local SOP; TM 11-5821-333-30; DA Pam 738-750; static work station, NSN 4940-01-087-3458; and TB 385-4. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Restored the RT to operational status in accordance with references listed in the performance measures.

**Performance Measures**

**GO      NO GO**

NOTE: PMs 2 through 8 refer to TM 11-5821-333-30. Observe all safety precautions in accordance with the technical manual, TB 385-4, and local SOP.

|   |       |       |
|---|-------|-------|
| 1. Analyzed deficiencies or symptoms listed on maintenance request form. (Refer to DA Pam 738-750.) | _____ | _____ |
| 2. Performed visual inspection.   | _____ | _____ |
| 3. Connected test equipment.  | _____ | _____ |
| 4. Performed operational check.   | _____ | _____ |
| 5. Proceeded to PM 9 if radio passed operational check.   | _____ | _____ |
| 6. Performed troubleshooting procedures.  | _____ | _____ |
| 7. Performed repair procedures.   | _____ | _____ |
| 8. If repair procedures corrected deficiency, proceeded to PM 3; if not, proceeded to PM 9.         | _____ | _____ |
| 9. Completed maintenance request form. (Refer to DA Pam 738-750.)                                   | _____ | _____ |
| 10. Requested final inspection. (Refer to local SOP.)   | _____ | _____ |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

- DA FORM 2407
- DA PAM 738-750
- TB 385-4
- TM 11-5821-333-30

**Related**

**Repair Control, Radio Set C-(\*)/ARC-201(V)(\*)  
093-35L-1203**

**Conditions:** A C-(\*)/ARC-201(V)(\* and a maintenance request form have been turned in to your avionics shop. Your supervisor has directed you to restore the radio set control to operational status, given the following: Radio Set Control C-(\*)/ARC-201(V)(\*); Oscilloscope AN/USM-488; Digital Multimeter AN/USM-486; Maintenance Group OA-9264A/ARC-201(V); Power Supply PP-1104(\*); Tool Kit TK-105/G; applicable repair parts; DA Form 2407; local SOP; TM 11-5821-333-30; DA Pam 738-750; static work station, NSN 4940-01-087-3458; and TB 385-4. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Restored the radio set control to operational status in accordance with references listed in the performance measures.

| <b>Performance Measures</b>  | <u><b>GO</b></u> | <u><b>NO GO</b></u> |
|--|------------------|---------------------|
| NOTE: PMs 2 through 8 refer to TM 11-5821-333-30. Observe all safety precautions in accordance with the technical manual, TB 385-4, and local SOP. |                  |                     |
| 1. Analyzed deficiencies or symptoms listed on maintenance request form. (Refer to DA Pam 738-750.)  | —                | —                   |
| 2. Performed visual inspection.  | —                | —                   |
| 3. Connected test equipment.   | —                | —                   |
| 4. Performed operational check.  | —                | —                   |
| 5. Proceeded to PM 9 if control passed operational check.  | —                | —                   |
| 6. Performed troubleshooting procedures.   | —                | —                   |
| 7. Performed repair procedures.  | —                | —                   |
| 8. If repair procedures corrected deficiency, proceeded to PM 3; if not, proceeded to PM 9.  | —                | —                   |
| 9. Completed maintenance request form. (Refer to DA Pam 738-750.)  | —                | —                   |
| 10. Requested final inspection. (Refer to local SOP.)  | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

| <b>Required</b>   | <b>Related</b> |
|-------------------|----------------|
| DA FORM 2407      |                |
| DA PAM 738-750    |                |
| TB 385-4          |                |
| TM 11-5821-333-30 |                |

**Repair Data Rate Adapter CV-3885/ARC-201(V)  
093-35L-1204**

**Conditions:** A CV-3885/ARC-201(V) and a maintenance request form have been turned in to your avionics shop. Your supervisor has directed you to restore the data rate adapter to operational status, given the following: Data Rate Adapter CV-3885/ARC-201(V); Function Generator SG-1171(V)1/U; Oscilloscope AN/USM-488; Digital Multimeter AN/USM-486; Maintenance Group OA-9264A/ARC-201(V); Frequency Counter TD-1225(V)1/U; Power Supply PP-1104(\*); Tool Kit TK-105/G; applicable repair parts; DA Form 2407; local SOP; TM 11-5821-333-30; DA Pam 738-750; TB 385-4; and static work station, NSN 4940-01-087-3458. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Restored the data rate adapter to operational status in accordance with the references listed in the performance measures.

| <b>Performance Measures</b>  | <u><b>GO</b></u> | <u><b>NO GO</b></u> |
|--|------------------|---------------------|
| NOTE: PMs 2 through 8 refer to TM 11-5821-333-30. Observe all safety precautions in accordance with the technical manual, TB 385-4, and local SOP. |                  |                     |
| 1. Analyzed deficiencies or symptoms listed on maintenance request form. (Refer to DA Pam 738-750.)  | —                | —                   |
| 2. Performed visual inspection.  | —                | —                   |
| 3. Connected test equipment.   | —                | —                   |
| 4. Performed operational check.  | —                | —                   |
| 5. Proceeded to PM 9 if data rate adapter passed the operational check.  | —                | —                   |
| 6. Performed troubleshooting procedures.   | —                | —                   |
| 7. Performed repair procedures.  | —                | —                   |
| 8. If repair procedures corrected deficiency, proceeded to PM 3; if not, proceeded to PM 9.  | —                | —                   |
| 9. Completed maintenance request form. (Refer to DA Pam 738-750.)  | —                | —                   |
| 10. Requested final inspection. (Refer to local SOP.)  | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

| <b>Required</b>   | <b>Related</b> |
|-------------------|----------------|
| DA FORM 2407      |                |
| DA PAM 738-750    |                |
| TB 385-4          |                |
| TM 11-5821-333-30 |                |

## Subject Area 3: VHF Communications

**Repair Receiver-Transmitter RT-(\*)/ARC-186(V)****093-35L-1302**

**Conditions:** An RT-(\*)/ARC-186(V) and a maintenance request form have been turned in to your avionics shop. Your supervisor has directed you to restore the receiver-transmitter to operational status, given the following: Receiver-Transmitter RT-(\*)/ARC-186(V); Power Supply PP-1104(\*); Signal Generator SG-1207/U; Digital Multimeter AN/USM-486; Headset-Microphone H-157A/AIC; Oscilloscope AN/USM-488; Modulation Meter ME-525; Test Facilities Kit MK-994A/AR; Distortion Analyzer TS-4084/G; Attenuators, 6-dB and 30-dB; static work station, NSN 4940-01-087-3458; Tool Kit TK-105/G; Radio Test Set AN/GRM-114A; Function Generator SG-1288/G; applicable repair parts; DA Form 2407; local SOP; TM 11-5821-318-30; DA Pam 738-750; and TB 385-4. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Restored the receiver-transmitter to operational status in accordance with references listed in the performance measures.

**Performance Measures****GO**    **NO GO**

NOTE: PMs 3 through 7 refer to TM 11-5821-318-30. Observe all safety precautions in accordance with the technical manual, TB 385-4, and local SOP.

|  |       |       |
|--|-------|-------|
| 1. Analyzed deficiencies or symptoms listed on maintenance request form. (Refer to DA Pam 738-750.)  | _____ | _____ |
| 2. Performed visual inspection.  | _____ | _____ |
| 3. Connected test equipment.   | _____ | _____ |
| 4. Performed operational check.  | _____ | _____ |
| 5. Proceeded to PM 9 if radio passed operational check.  | _____ | _____ |
| 6. Performed troubleshooting procedures.   | _____ | _____ |
| 7. If troubleshooting procedures corrected deficiency, proceeded to PM 3; if not, proceeded to PM 8. | _____ | _____ |
| 8. Completed maintenance request form. (Refer to DA Pam 738-750.)                                    | _____ | _____ |
| 9. Requested final inspection. (Refer to local SOP.)   | _____ | _____ |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References****Required**

DA FORM 2407  
DA PAM 738-750  
TB 385-4  
TM 11-5821-318-30

**Related**

**Repair Control, C-(\*)/ARC-186(V)  
093-35L-1303**

**Conditions:** A C-(\*)/ARC-186(V) and a maintenance request form have been turned in to your avionics shop. Your supervisor has directed you to restore the radio set control to operational status, given the following: Radio Set Control C-(\*)/ARC-186(V); Signal Generator SG-1112(V)1/U; Headset-Microphone H-157A/AIC; Test Facilities Kit MK-994A/AR; Attenuators, 6-dB and 30-dB; Power Supply PP-1104(\*); Tool Kit TK-105/G; Digital Multimeter AN/USM-486; Oscilloscope AN/USM-488; Receiver-Transmitter RT-1300A/ARC-186(V); static work station, NSN 4940-01-987-3458; applicable repair parts; DA Form 2407, local SOP, TM 11-5821-318-30, DA Pam 738-750, and TB 385-4. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Restored the radio set control to operational status in accordance with the references listed in the performance measures.

| <b>Performance Measures</b>  | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|--|------------------|---------------------|
| NOTE: PMs 3 through 6 refer to TM 11-5821-318-30. Observe all safety precautions in accordance with the technical manual, TB 385-4, and local SOP. |                  |                     |
| 1. Analyzed deficiencies or symptoms listed on maintenance request form. (Refer to DA Pam 738-750.)  | —                | —                   |
| 2. Performed visual inspection.  | —                | —                   |
| 3. Connected test equipment.   | —                | —                   |
| 4. Performed operational check.  | —                | —                   |
| 5. Proceeded to PM 7 if control passed operational check.  | —                | —                   |
| 6. Performed repair procedures.  | —                | —                   |
| 7. Completed maintenance request form. (Refer to DA Pam 738-750.)  | —                | —                   |
| 8. Requested final inspection. (Refer to local SOP.)   | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

| <b>Required</b>   | <b>Related</b> |
|-------------------|----------------|
| DA FORM 2407      |                |
| DA PAM 738-750    |                |
| TB 385-4          |                |
| TM 11-5821-318-30 |                |

**Repair Signal Data Comparator CM-(\*)/ARC-186(V)  
093-35L-1304**

**Conditions:** A CM-(\*)/ARC-186(V) and a maintenance request form have been turned in to your avionics shop. Your supervisor has directed you to restore the signal data comparator to operational status, given the following: Signal Data Comparator CM-(\*)/ARC-186(V); Signal Generator SG-1112(V)1, Digital Multimeter AN/USM-486; Headset-Microphone H-157A/AIC; Test Facilities Kit MK-994A/AR. 6. Power Supply PP-1104(\*); Tool Kit TK-105/G, Receiver-Transmitter RT-1300A/ARC-186(V); Radio Set Control C-(\*)/ARC-186(V); static work station, NSN 4940-01-087-3458; applicable repair parts; DA Form 2407, local SOP, TM 11-5821-318-30, DA Pam 738-750, and TB 385-4. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Restored the signal data comparator to operational status in accordance with the references listed in the performance measures.

**Performance Measures** GO    NO GO

NOTE: PMs 2 and 3 refer to TM 11-5821-318-30. Observe all safety precautions in accordance with the technical manual, TB 385-4, and local SOP.

- |   |   |   |
|---|---|---|
| 1. Analyzed deficiencies or symptoms listed on maintenance request form. (Refer to DA Pam 738-750.) | — | — |
| 2. Connected test equipment.  | — | — |
| 3. Performed test procedures.   | — | — |
| 4. Completed maintenance request form. (Refer to DA Pam 738-750.)                                   | — | — |
| 5. Requested final inspection. (Refer to local SOP.)  | — | — |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

|  |                |
|--|----------------|
| <b>Required</b><br>DA FORM 2407<br>DA PAM 738-750<br>TB 385-4<br>TM 11-5821-318-30 | <b>Related</b> |
|--|----------------|



Subject Area 4: UHF Communications

**Repair Receiver-Transmitter RT-(\*)/ARC-164(V)  
093-35L-1402**

**Conditions:** An RT-(\*)/ARC-164(V) and a maintenance request form have been turned in to your avionics shop. Your supervisor has directed you to restore the receiver transmitter to operational status, given the following: Receiver Transmitter RT-(\*)/ARC-164(V); Wattmeter AN/URM-120; Signal Generator SG-1112(V)1/U; RF Voltmeter ME-426/U; Headset-Microphone H-157A/AIC; Oscilloscope AN/USM-488; Digital Multimeter AN/USM-486; Test Facilities Kit MK-994A/AR; Distortion Analyzer HP-399A; Variable Attenuator CN-318/G; Power Supply HP-6433B; Radio Set Control C-9682A/ARC-164(V)(\*); Tool Kit TK-105/G; Mixer HP 10514A CB-2343U; Attenuator, NARDA 766-30, 30-dB; static work station, NSN 4940-01-087-3458; applicable repair parts; DA Form 2407, local SOP, TM 11-5821-311-34, DA Pam 738-750, and TB 385-4. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Restored the receiver-transmitter to an operational status in accordance with references listed in the performance measures.

**Performance Measures**

**GO      NO GO**

NOTE: PMs 3 through 10 refer to TM 11-5821-311-34. Observe all safety precautions in accordance with the technical manual, TB 385-4, and local SOP.

|   |       |       |
|---|-------|-------|
| 1. Analyzed deficiencies or symptoms listed on maintenance request form. (Refer to DA Pam 738-750.) | _____ | _____ |
| 2. Performed visual inspection.   | _____ | _____ |
| 3. Connected test equipment.  | _____ | _____ |
| 4. Performed troubleshooting and testing procedures.  | _____ | _____ |
| 5. Proceeded to PM 11 if receiver-transmitter passed the troubleshooting and testing procedures.    | _____ | _____ |
| 6. Performed adjustment/alignment, as needed.   | _____ | _____ |
| 7. If adjustment/alignment corrected deficiency, proceeded to PM 3; if not, proceeded to PM 8.      | _____ | _____ |
| 8. Isolated the fault.  | _____ | _____ |
| 9. Removed/installed faulty component/subassembly/module.   | _____ | _____ |
| 10. If isolated fault was corrected, proceeded to PM 3; if not, proceeded to PM 11.                 | _____ | _____ |
| 11. Completed maintenance request form. (Refer to DA Pam 738-750.)                                  | _____ | _____ |
| 12. Requested final inspection. (Refer to local SOP.)   | _____ | _____ |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**  
DA FORM 2407  
DA PAM 738-750

**Related**

**References**

**Required**

TB 385-4

TM 11-5821-311-34

**Related**

Subject Area 5: HF Communications

**Repair Radio Set AN/ARC-220(\*)**  
**093-35L-1501**

**Conditions:** An AN/ARC-220 and a maintenance request form have been turned in to your avionics shop. Your supervisor has directed you to restore the receiver transmitter to operational status, given the following: AN/ARC-220; AN/VRC-100; Radio Test Set AN/GRM-114A; ANCD fill device; wattmeter; handset; Digital Multimeter AN/USM-486; dummy load; static work station, NSN 4940-01-087-3458; applicable repair parts; DA Form 2407, DA Pam 738-750, TM 11-5821-357-30, TM 11-5820-1141-30, and local SOP. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Restored the receiver-transmitter to operational status in accordance with the references listed in the performance measures.

**Performance Measures**

**GO**      **NO GO**

NOTE: PMs 2 through 8 refer to TM 11-5821-357-30. Observe all safety precautions in accordance with TM 11-5821-357-30, TB 385-4, and local SOP.

|   |       |       |
|---|-------|-------|
| 1. Analyzed deficiencies or symptoms listed on maintenance request form. (Refer to DA Pam 738-750.) | _____ | _____ |
| 2. Performed visual inspection.   | _____ | _____ |
| 3. Connected test equipment.  | _____ | _____ |
| 4. Performed BIT procedures.  | _____ | _____ |
| 5. Proceeded to PM 9 if radio passed BIT.   | _____ | _____ |
| 6. Performed troubleshooting procedures.  | _____ | _____ |
| 7. Performed repair procedures.   | _____ | _____ |
| 8. If repair procedures corrected deficiency, proceeded to PM 3; if not, proceeded to PM 9.         | _____ | _____ |
| 9. Completed maintenance request form. (Refer to DA Pam 738-750.)                                   | _____ | _____ |
| 10. Requested final inspection. (Refer to local SOP.)   | _____ | _____ |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

**Related**

- DA FORM 2407
- DA PAM 738-750
- TB 385-4
- TM 11-5820-1141-30
- TM 11-5821-357-30

**Repair Airterm Security Device KY-100  
093-35L-1502**

**Conditions:** An AIRTERM Security Device KY-100 and a maintenance request form have been turned in to your avionic shop. Your supervisor has directed you to restore the receiver-transmitter to operational status. Available resources include KY-100, AN/ARC-220, AN/VRC-100, AN/GRM-114A, AN/ARC-102, ANCD fill device, wattmeter, handset, digital multimeter AN/USM-486, oscilloscope AN/USM-488, dummy load, static work station, NSN 4940-01-087-3458, applicable repair parts, DA Form 2407, DA Pam 738-750, TB 385-4, TM 11-5810-398-13&P, and local SOP. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Restored the KY-100 to operational status in accordance with the references listed in the performance measures.

| <b>Performance Measures</b>   | <u>GO</u> | <u>NO GO</u> |
|---|-----------|--------------|
| NOTE: PMs 3 through 8 refer to TM 11-5810-398-13&P.   |           |              |
| 1. Analyzed deficiencies or symptoms listed on maintenance request form. (Refer to DA Pam 738-750.) | —         | —            |
| 2. Observed all safety precautions. (Refer to local SOP or TB 385-4.)                               | —         | —            |
| 3. Performed visual inspection.   | —         | —            |
| 4. Connected test equipment.  | —         | —            |
| 5. Performed operational check.   | —         | —            |
| 6. Proceeded to PM 9 if standards were met.   | —         | —            |
| 7. Performed troubleshooting procedures.  | —         | —            |
| 8. IF troubleshooting procedures corrected deficiency, proceeded to PM 4; if not proceeded to PM 9. | —         | —            |
| 9. Completed maintenance request form. (Refer to DA Pam 738-750.)                                   | —         | —            |
| 10. Requested final inspection. (Refer to local SOP.)   | —         | —            |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

| <b>Required</b>     | <b>Related</b> |
|---------------------|----------------|
| DA FORM 2407        |                |
| DA PAM 738-750      |                |
| TB 385-4            |                |
| TM 11-5810-398-13&P |                |

Subject Area 6: Maintenance Equipment

**Restore Avionics Communications Maintenance Equipment  
093-35L-1601**

**Conditions:** One of several pieces of avionics communications maintenance equipment and one of several maintenance request forms have been turned in to your avionics shop. Your supervisor has directed you to restore the maintenance equipment to operational status, given the following:

OA-9264A/ARC-201(V). Maintenance Group OA-9264A/ARC-201(V); Digital Multimeter AN/USM-486; Power Supply PP-1104(\*); Tool Kit TK-105/G; Oscilloscope AN/USM-488; Signal Generator SG-1112(V)/U; Function Generator SG-1171/U; Frequency Counter TD-1225A(V)2/U; applicable repair parts; DA Form 2407, local SOP, TM 11-5821-333-30, DA Pam 738-750, and TB 385-4.

MK-722/URC. Electronic Equipment Maintenance Kit MK-722/URC; Digital Multimeter AN/USM-486; Power Supply PP-1104(\*); Tool Kit TK-105/G; applicable repair parts; DA Form 2407, local SOP, TM 11-6625-623-45, DA Pam 738-750, and TB 385-4.

MK-994A/AR. Test Facilities Kit MK-994A/AR; Signal Generator SG-1170; Radio Test Set AN/GRM-114A; Power Supply PP-1104(\*); Tool Kit TK-105/G; Digital Multimeter AN/USM-486; Detector DT-307/G; Variable Attenuator CN-796/U; Test Facilities Kit MK-1191/AR; applicable repair parts; DA Form 2407, local SOP, TM 11-6625-928-35, DA Pam 738-750, and TB 385-4.

NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Restored the maintenance equipment to operational status in accordance with the references listed in the performance measures.

| <b>Performance Measures</b>   | <u><b>GO</b></u> | <u><b>NO GO</b></u> |
|---|------------------|---------------------|
| NOTE: For PMs 3 through 5, refer to applicable technical manual for each maintenance kit. Observe all safety precautions in accordance with technical manuals, TB 385-4, and local SOP. |                  |                     |
| 1. Analyzed deficiencies or symptoms listed on the maintenance request form. (Refer to DA Pam 738-750.)   | ___              | ___                 |
| 2. Performed visual inspection.   | ___              | ___                 |
| 3. Performed troubleshooting procedures.  | ___              | ___                 |
| 4. Removed/installed faulty component/subassembly/circuit card.   | ___              | ___                 |
| 5. Performed adjustment/alignment procedures, as needed.  | ___              | ___                 |
| 6. Completed maintenance request form. (Refer to DA Pam 738-750.)   | ___              | ___                 |
| 7. Requested final inspection. (Refer to local SOP.)  | ___              | ___                 |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

| <b>Required</b> | <b>Related</b> |
|-----------------|----------------|
| DA FORM 2407    |                |
| DA PAM 738-750  |                |
| TB 385-4        |                |

**References**

**Required**

TM 11-5821-333-30

TM 11-6625-623-45

TM 11-6625-928-35

**Related**

**Restore Test Facilities Kit MK-994A/AR  
093-35L-1602**

**Conditions:** An MK-994A/AR and a maintenance request form have been turned in to your avionics shop. Your supervisor has directed you to restore the test facilities kit to operational status. You will be given the following: Test Facilities Kit MK-994A/AR; Signal Generator SG-1170; Radio Test Set AN/GRM-114A; Power Supply PP-1104(\*); Tool Kit TK-105/G; Digital Multimeter AN/USM-486; Detector DT-307/G; Variable Attenuator CN-796/U; Test Facilities Kit MK-1191/AR; applicable repair parts; static work station, NSN 4940-01-087-3458; DA Form 2407, local SOP, TM 11-6625-928-35, DA Pam 738-750, and TB 385-4. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Restored the test facilities kit to operational status in accordance with the references in the performance measures.

| <b>Performance Measures</b>  | <u><b>GO</b></u> | <u><b>NO GO</b></u> |
|--|------------------|---------------------|
| NOTE: PMs 2 through 5 refer to TM 11-6625-928-35. Observe all safety precautions in accordance with the technical manual, TB 385-4, and local SOP. |                  |                     |
| 1. Analyzed deficiencies or symptoms listed on maintenance request form. (Refer to DA Pam 738-750.)  | —                | —                   |
| 2. Performed visual inspection.  | —                | —                   |
| 3. Connected test equipment.   | —                | —                   |
| 4. Performed troubleshooting procedures.   | —                | —                   |
| 5. Performed repair procedures.  | —                | —                   |
| 6. Completed maintenance request form. (Refer to DA Pam 738-750.)  | —                | —                   |
| 7. Requested final inspection. (Refer local SOP.)  | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

| <b>Required</b>   | <b>Related</b> |
|-------------------|----------------|
| DA FORM 2407      |                |
| DA PAM 738-750    |                |
| TB 385-4          |                |
| TM 11-6625-928-35 |                |

**Restore Maintenance Group OA-9264A/ARC-201(V)  
093-35L-1603**

**Conditions:** An OA-9264A/ARC-201(V) and a maintenance request form have been turned in to your avionics shop. Your supervisor has directed you to restore the maintenance group to operational status, given the following: Maintenance Group OA-9264A/ARC-201(V); Digital Multimeter AN/USM-486; Power Supply PP-1104(\*); Tool Kit TK-105/G; Oscilloscope AN/USM-488; Signal Generator SG-1112(V)/U; Function Generator SG-1171/U; Frequency Counter TD-1225A(V)2/U; applicable repair parts; static work station, NSN 4940-01-087-3458; DA Form 2407, local SOP, TM 11-5821-333-30, DA Pam 738-750, and TB 385-4. NOTE: If any of the above equipment is obsolete or not available use equivalent equipment.

**Standards:** Restored the maintenance group to operational status in accordance with the references in the performance measures.

| <b>Performance Measures</b>  | <u><b>GO</b></u> | <u><b>NO GO</b></u> |
|--|------------------|---------------------|
| NOTE: PMs 2 through 8 refer to TM 11-5821-333-30. Observe all safety precautions in accordance with the technical manual, TB 385-4, and local SOP. |                  |                     |
| 1. Analyzed deficiencies or symptoms listed on maintenance request form. (Refer to DA Pam 738-750.)  | _____            | _____               |
| 2. Performed visual inspection.  | _____            | _____               |
| 3. Performed operational check test setup.   | _____            | _____               |
| 4. Performed operational check.  | _____            | _____               |
| 5. Proceeded to PM 9 if maintenance group passed operational check.  | _____            | _____               |
| 6. Performed troubleshooting procedures.   | _____            | _____               |
| 7. Performed repair procedures.  | _____            | _____               |
| 8. If repair procedures corrected deficiency, proceeded to PM 3; if not, proceeded to PM 9.  | _____            | _____               |
| 9. Completed maintenance request form. (Refer to DA Pam 738-750.)  | _____            | _____               |
| 10. Requested final inspection. (Refer to local SOP.)  | _____            | _____               |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

| <b>Required</b>   | <b>Related</b> |
|-------------------|----------------|
| DA FORM 2407      |                |
| DA PAM 738-750    |                |
| TB 385-4          |                |
| TM 11-5821-333-30 |                |



**Operate Avionics Electronics Shop Shelter (All Models)**

**093-35L-1604**

**Conditions:** Operate and emplace an avionics electronics shop shelter given the following: AN/ASM-146B or AN/ASM-189, TM 11-4940-238-14-1 or TM 11-4940-209-15, 5-pound sledgehammer, grounding rod, grounding strap, pliers, 8-inch adjustable wrench, 8-inch flat-tip screwdriver, and a 115-volt, 60-hertz, 10kw external power source. Read all safety precautions in the technical manual.

**Standards:** Performed shelter setup procedures by emplacing shelter in proper location, grounding shelter, installing power cable, and operating equipment to perform mission requirements.

| <b>Performance Measures</b>  | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|--|------------------|---------------------|
| 1. Located a suitable location in which to place the electronics shelter.                  | —                | —                   |
| 2. Placed electronics shelter.   | —                | —                   |
| 3. Placed chock blocks.  | —                | —                   |
| 4. Grounded electronics shelter.   | —                | —                   |
| 5. Connected power cable to electronics shelter.   | —                | —                   |
| 6. Checked circuit breakers in electronics shelter.  | —                | —                   |
| 7. Applied power to electronics shelter.   | —                | —                   |
| 8. Removed all tie-down bars and clamps that secured equipment and drawers during transit. | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

- TM 11-4940-209-15
- TM 11-4940-238-14-1

**Related**

Subject Area 7: Special Communications Section

**Perform Serviceability Inspection of the AN/PRC-90(\*)**  
**093-35L-1701**

**Conditions:** An AN/PRC-90(\*) and a maintenance request form have been turned in to your avionics shop. Your supervisor has directed you to perform a serviceability inspection of the radio set, given the following: Radio Set AN/PRC-90(\*); Radio Test Set TS-24B, Radio Test Set AN/PRM-32(\*); Battery Tester TS-2530(\*)/UR; Battery Test Adapter MX-8801/PRC-90; Electronic Voltmeter AN/URM-145(\*); Signal Generator SG-1170/U; Digital Readout Electric Counter AN/USM-459; Digital Multimeter AN/USM-486; Oscilloscope AN/USM-488; Power Supply PP-1104/G; Tool Kit TK-105/G; DA Form 2407, local SOP, TM 11-5820-1049-30, DA Pam 738-750, and TB 385-4.

**Standards:** Performed a serviceability inspection of the AN/PRC-90 in accordance with the references in the performance measures.

| <b>Performance Measures</b>   | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|---|------------------|---------------------|
| NOTE: PMs 2 through 5 refer to TM 11-5820-1049-30. Observe all safety precautions in accordance with the technical manual, TB 385-4, and local SOP. |                  |                     |
| 1. Analyzed deficiencies or symptoms listed on maintenance request form. (Refer to DA Pam 738-750.)   | _____            | _____               |
| 2. Performed visual inspection.   | _____            | _____               |
| 3. Performed test setup procedures.   | _____            | _____               |
| 4. Performed operational test.  | _____            | _____               |
| 5. Completed maintenance request form. (Refer to DA Pam 738-750.)   | _____            | _____               |
| 6. Requested final inspection. (Refer to local SOP.)  | _____            | _____               |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

| <b>Required</b>    | <b>Related</b> |
|--------------------|----------------|
| DA FORM 2407       |                |
| DA PAM 738-750     |                |
| TB 385-4           |                |
| TM 11-5820-1049-30 |                |

**Perform Serviceability Inspection of the AN/PRC-112(\*)  
093-35L-1702**

**Conditions:** An AN/PRC-112(\*) and a maintenance request form have been turned into your avionics shop. Your supervisor has directed you to perform a serviceability inspection of the radio set, given the following: Radio Set AN/PRC-112(\*); Radio Set PLS AN/ARS-6(V)5; TS-4360/AYD; AN/GRM-114A; Program Loader KY-913/PRC-112; Maintenance Kit MK-994A/AR; DA Form 2407, local SOP, TM 11-5820-1037-13&P, DA Pam 738-750, and TB 385-4.

**Standards:** Performed serviceability inspection of the AN/PRC-112 in accordance with the references in the performance measures.

| <b>Performance Measures</b>  | <u><b>GO</b></u> | <u><b>NO GO</b></u> |
|--|------------------|---------------------|
| NOTE: PMs 4 through 11 refer to TM 11-5820-1037-13&P. Observe all safety precautions in accordance with technical manual, TB 385-4, and local SOP. |                  |                     |
| 1. Analyzed deficiencies or symptoms listed on maintenance request form. (Refer to DA Pam 738-750.)  | —                | —                   |
| 2. Performed visual inspection.  | —                | —                   |
| 3. Performed test setup procedures.  | —                | —                   |
| 4. Performed radio current test.   | —                | —                   |
| 5. Performed radio set programming test.   | —                | —                   |
| 6. Performed transponder power test.   | —                | —                   |
| 7. Performed transmitter power test.   | —                | —                   |
| 8. Performed transmitter modulation percentage test.   | —                | —                   |
| 9. Performed receiver distortion and SINAD test.   | —                | —                   |
| 10. Performed program loader test.   | —                | —                   |
| 11. Completed maintenance request form. (Refer to DA Pam 738-750.)   | —                | —                   |
| 12. Requested final inspection. (Refer to local SOP.)  | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

| <b>Required</b>      | <b>Related</b> |
|----------------------|----------------|
| DA FORM 2407         |                |
| DA PAM 738-750       |                |
| TB 385-4             |                |
| TM 11-5820-1037-13&P |                |

## Skill Level 2

## Subject Area 8: Technical Guidance

**Provide Technical Guidance on FM Communications Systems****093-35L-2801**

**Conditions:** A repairer in your avionics shop requires technical guidance restoring one of the following FM communications systems: AN/ARC-186(V) or AN/ARC-201(V)(\*). The following systems, associated TMDE, and references are available:

AN/ARC-186(V). Receiver Transmitter RT-(\*)/ARC-186(V); Radio Set Control C-(\*)/ARC-186(V); Signal Data Comparator CM-(\*)/ARC-186(V); Power Supply PP-1104(\*); Signal Generator SG-1207/U; Digital Voltmeter AN/GSM-64D; Headset-Microphone H-157A/AIC; Oscilloscope AN/USM-488; Modulation Meter ME-525; Test Facilities Kit MK-994A/AR; Distortion Analyzer TS-4084/G; Attenuators, 6-dB and 30-dB; static work station, NSN 4940-01-087-3458; Tool Kit TK-105/G; Radio Test Set AN/GRM-114A; Function Generator SG-1288/G; applicable repair parts; DA Form 2407, local SOP, TM 11-5821-318-30, DA Pam 738-750, and TB 385-4.

AN/ARC-201(V)(\*). Receiver Transmitter RT-(\*)/ARC-201(V)(\*); Radio Set Control C-(\*)/201(V)(\*); Data Rate Adapter CV-3885/ARC-201(V); Signal Generator SG-1112(V)1/U; Function Generator SG-1171(V)1/U; Tool Kit TK-100/G; Oscilloscope AN/USM-488; Digital Multimeter AN/USM-486; Maintenance Group OA-9264A/ARC-201(V); Frequency Counter TD-1225(V)1/U; Fill Device MX-18290/VRC or MX-10579/VRC; Power Supply PP-1104(\*); Tool Kit TK-105/G; applicable repair parts; DA Form 2407, local SOP, TM 11-5821-333-30, DA Pam 738-750, and TB 385-4.

NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Provided technical guidance necessary to enable the repairer to restore the FM communications system to operational status in accordance with the applicable technical manuals.

**Performance Measures**

NOTE: For PMs 2 through 6, refer to applicable technical manuals. Observe all safety precautions in accordance with technical manuals, TB 385-4, and local SOP.

|   | <u>GO</u> | <u>NO GO</u> |
|---|-----------|--------------|
| 1. Asked repairer to explain procedures performed and problems encountered.   | _____     | _____        |
| 2. Verified correct test setup. Proceeded to PM 3 or 7, as indicated.   | _____     | _____        |
| 3. Verified equipment fault indication. Proceeded to PM 4 or 7, as indicated.   | _____     | _____        |
| 4. Verified troubleshooting procedures. Proceeded to PM 5, 6, or 7, as indicated.   | _____     | _____        |
| NOTE: Whenever possible, block and schematic diagrams should be used to illustrate the guidance provided.                   |           |              |
| 5. Verified adjustments/alignments. Proceeded to PM 3 or 7, as indicated.   | _____     | _____        |
| 6. Verified removal/installation of component/part. Proceeded to PM 5 or 7, as indicated.                                   | _____     | _____        |
| 7. Recommended that repairer review the technical material and/or receive training on equipment by skill level 2 personnel. | _____     | _____        |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

DA FORM 2407

DA PAM 738-750

TB 385-4

TM 11-5821-318-30

TM 11-5821-333-30

**Related**

FM 7-1

**Provide Technical Guidance on VHF Communications Systems  
093-35L-2802**

**Conditions:** A repairer in your avionics shop requires technical guidance restoring the AN/ARC-186(V) VHF communications system. The following systems, associated TMDE, and references are available; Receiver Transmitter RT-(\*)/ARC-186(V); Radio Set Control C-(\*)/ARC-186(V); Signal Data Comparator CM-(\*)/ARC-186(V); Power Supply PP-1104(\*); Signal Generator SG-1207/U; Digital Voltmeter AN/GSM-64D; Headset-Microphone H-157A/AIC; Oscilloscope AN/USM-488; Modulation Meter ME-525; Test Facilities Kit MK-994A/AR; Digital Multimeter AN/USM-486; Distortion Analyzer TS-4084/G; Attenuators, 6-dB and 30-dB; static work station, NSN 4940-01-087-3458; Tool Kit TK-105/G; Radio Test Set AN/GRM-114A; Function Generator SG-1288/G; applicable repair parts; DA Form 2407, DA PAM 738-750, local SOP, TM 11-5821-318-30, and TB 385-4. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Provided the technical guidance necessary to enable the repairer to restore the VHF communications system to operational status in accordance with the applicable technical manual.

| <b>Performance Measures</b>  | <u><b>GO</b></u> | <u><b>NO GO</b></u> |
|--|------------------|---------------------|
| NOTE: For PMs 2 through 6, refer to technical manual. Observe all safety precautions in accordance with technical manual, TB 385-4, and local SOP. |                  |                     |
| 1. Asked repairer to explain procedures performed and problems encountered.  | _____            | _____               |
| 2. Verified correct test setup. Proceeded to PM 3 or 7, as indicated.  | _____            | _____               |
| 3. Verified equipment fault indication. Proceeded to PM 4 or 7, as indicated.  | _____            | _____               |
| 4. Verified troubleshooting procedures. Proceeded to PM 5, 6, or 7, as indicated.  | _____            | _____               |
| NOTE: Whenever possible, block and schematic diagrams should be used to illustrate the guidance provided.  |                  |                     |
| 5. Verified adjustments/alignments. Proceeded to PM 3 or 7, as indicated.  | _____            | _____               |
| 6. Verified removal/installation of component/part. Proceeded to PM 5 or 7, as indicated.  | _____            | _____               |
| 7. Recommended repairer review technical material and/or receive training on equipment by skill level 2 personnel.                                 | _____            | _____               |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

DA PAM 738-750  
TB 385-4  
TM 11-5821-318-30

**Related**

DA FORM 2407

**Provide Technical Guidance on UHF Communications Systems  
093-35L-2803**

**Conditions:** A repairer in your avionics shop requires technical guidance restoring the AN/ARC-164(V) UHF communications system. The following systems, associated TMDE, and references are available: Receiver Transmitter RT-(\*)/ARC-164(V); Wattmeter AN/URM-120; Signal Generator SG-1112(V)1/U; RF Voltmeter ME-426/U; Headset-Microphone H-157A/AIC; Oscilloscope AN/USM-488; Digital Multimeter AN/USM-486; Test Facilities Kit MK-994A/AR; Distortion Analyzer HP-399A; Variable Attenuator CN-318/G; Power Supply HP-6433B; Radio Set Control C-9682A/ARC-164(V); Tool Kit TK-105/G; Mixer HP 10514A CB-2343U; Attenuator NARDA 766-30, 30-dB; static work station, NSN 4940-01-087-3458; applicable repair parts; DA Form 2407, local SOP, TM 11-5821-311-34, DA Pam 738-750, and TB 385-4. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Provided the technical guidance necessary to enable the repairer to restore the UHF communications system to operational status in accordance with the applicable technical manuals.

| <b>Performance Measures</b>   | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|---|------------------|---------------------|
| NOTE: For PMs 2 through 6, refer to applicable technical manual. Observe all safety precautions in accordance with technical manual, TB 385-4, and local SOP. |                  |                     |
| 1. Asked repairer to explain procedures performed and problems encountered.   | ___              | ___                 |
| 2. Verified correct test setup. Proceeded to PM 3 or 7, as indicated.   | ___              | ___                 |
| 3. Verified equipment fault indication. Proceeded to PM 4 or 7, as indicated.   | ___              | ___                 |
| 4. Verified troubleshooting procedures. Proceeded to PM 5, 6 or 7, as indicated.  | ___              | ___                 |
| NOTE: Whenever possible, block and schematic diagrams should be used to illustrate the guidance provided.   |                  |                     |
| 5. Verified adjustments/alignments. Proceeded to PM 3 or 7, as indicated.   | ___              | ___                 |
| 6. Verified removal/installation of component/part. Proceeded to PM 5 or 7, as indicated.   | ___              | ___                 |
| 7. Recommended repairer review technical material and/or receive training on equipment by skill level 2 personnel.  | ___              | ___                 |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

|   |                                  |
|---|----------------------------------|
| <p><b>Required</b><br/>DA FORM 2407<br/>DA PAM 738-750<br/>TB 385-4<br/>TM 11-5821-311-34</p> | <p><b>Related</b><br/>FM 7-1</p> |
|---|----------------------------------|

**Provide Technical Guidance on HF Communications Systems  
093-35L-2804**

**Conditions:** A repairer in your avionics shop requires technical guidance restoring either the AN/ARC-220 or AN/VRC-100 HF communications system using the following resources: Receiver-Transmitter AN/ARC-220; AN/VRC-100; AN/GRM-114A; dummy load; Tool Kit TK-105/G; applicable repair parts; DA Form 2407, local SOP, and TM 11-5821-357-30. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Provided the technical guidance necessary to enable the repairer to restore the HF communications system to operational status in accordance with the technical manual.

**Performance Measures**

**GO      NO GO**

NOTE: For PMs 2 through 6, refer to technical manual. Observe all safety precautions in accordance with technical manual, TB 385-4, and local SOP.

- |  |       |       |
|--|-------|-------|
| 1. Asked repairer to explain procedures performed and problems encountered.  | _____ | _____ |
| 2. Verified correct test setup. Proceeded to PM 3 or 7, as indicated.  | _____ | _____ |
| 3. Verified equipment fault indication. Proceeded to PM 4 or 7, as indicated.                                      | _____ | _____ |
| 4. Verified troubleshooting procedures. Proceeded to PM 5, 6 or 7, as indicated.                                   | _____ | _____ |
| NOTE: Whenever possible, block and schematic diagrams should be used to illustrate the guidance provided.          |       |       |
| 5. Verified adjustments/alignments. Proceeded to PM 3 or 7, as indicated.  | _____ | _____ |
| 6. Verified removal/installation of component/part. Proceeded to PM 5 or 7, as indicated.                          | _____ | _____ |
| 7. Recommended repairer review technical material and/or receive training on equipment by skill level 2 personnel. | _____ | _____ |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

- DA FORM 2407
- DA PAM 738-750
- TB 385-4
- TM 11-5821-357-30

**Related**

- FM 7-1



**Provide Technical Guidance on Intercommunications Systems (ICS)  
093-35L-2805**

**Conditions:** A repairer in your avionics shop requires technical guidance in restoring the C-6533/ARC intercommunications system. Available resources include the following systems, associated TMDE, and references: Communications System Control C-6533/ARC; Test Facilities Kit MK-994A/AR; Radio Test Set AN/GRM-114A; Headset-Microphone H-157A/AIC; Resistor, 150-ohm, .5-watt, 5-percent; Resistor, 200-ohm, .5-watt, 5-percent; Digital Multimeter AN/USM-486; Tool Kit TK-105/G; Function Generator SG-1288/G; Power Supply PP-1104(\*); applicable repair parts; DA Form 2407, DA Pam 738-750, local SOP, TM 11-5895-1174-23, and TB 385-4. NOTE: If any of the above equipment is obsolete or not available, use equivalent equipment.

**Standards:** Provided the technical guidance necessary for the repairer to restore the ICS to operational status in accordance with the applicable technical manuals.

**Performance Measures**

**GO      NO GO**

NOTE: For PMs 2 through 6, refer to applicable technical manual. Observe all safety precautions in accordance with technical manual, TB 385-4, and local SOP.

- |   |       |       |
|---|-------|-------|
| 1. Asked repairer to explain procedures performed and problems encountered.       | _____ | _____ |
| 2. Verified correct test setup. Proceeded to PM 3 or 7, as indicated.             | _____ | _____ |
| 3. Verified equipment fault indication. Proceeded to PM 4 or 7, as indicated.     | _____ | _____ |
| 4. Verified troubleshooting procedures. Proceeded to PM 5, 6, or 7, as indicated. | _____ | _____ |

NOTE: Whenever possible, block and schematic diagrams should be used to illustrate the guidance provided.

- |  |       |       |
|--|-------|-------|
| 5. Verified adjustments/alignments. Proceeded to PM 3 or 7, as indicated.  | _____ | _____ |
| 6. Verified removal/installation of component/part. Proceeded to PM 5 or 7, as indicated.                          | _____ | _____ |
| 7. Recommended repairer review technical material and/or receive training on equipment by skill level 2 personnel. | _____ | _____ |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

|                    |                |
|--------------------|----------------|
| <b>Required</b>    | <b>Related</b> |
| DA FORM 2407       | FM 7-1         |
| DA PAM 738-750     |                |
| LOCAL SOP          |                |
| TB 385-4           |                |
| TM 11-5895-1174-23 |                |

**Provide Technical Guidance on Avionic Communications Maintenance Equipment  
093-35L-2806**

**Conditions:** A repairer in your avionics shop requires technical guidance restoring one of the following pieces of communications maintenance equipment: OA-9264A/ ARC-201(V), MK-722/URC, MK-994A/AR, or MK 1191/AR. Available resources include the equipment, associated TMDE, and references below.

OA-9264A/ARC-201(V). Maintenance Group OA-9264A/ARC-201(V); Digital Multimeter AN/USM-486; Power Supply PP-1104(\*); Tool Kit TK-105/G; Oscilloscope AN/USM-488; Signal Generator SG-1112(V)/U; Function Generator SG-1171/U; Frequency Counter TD-1225A(V)2/U; applicable repair parts; DA Form 2407, local SOP, TM 11-5821-333-30, DA Pam 738-750, and TB 385-4.

MK-722/URC. Electronic Equipment Maintenance Kit MK-722/URC; Digital Multimeter AN/USM-486; Electronic Voltmeter AN/USM-98; Power Supply PP-1104(\*); Tool Kit TK-105/G; applicable repair parts; DA Form 2407, local SOP, TM 11-6625-623-45, DA Pam 738-750, and TB 385-4.

MK-994A/AR. Test Facilities Kit MK-994A/AR; Signal Generator SG-1170; Radio Test Set AN/GRM-114A; Power Supply PP-1104(\*); Tool Kit TK-105/G; Electronic Voltmeter AN/URM-145(\*); Digital Multimeter AN/USM-486; Detector DT-307/G; Variable Attenuator CN-796/U; Test Facilities Kit MK-1191/AR; applicable repair parts; DA Form 2407, local SOP, TM 11-6625-928-35, DA Pam 738-750, and TB 385-4.

**Standards:** Provided the technical guidance necessary to enable the repairer to restore the maintenance equipment to operational status in accordance with the applicable technical manuals.

**Performance Measures**

**GO      NO GO**

NOTE: For PMs 2 through 6, refer to applicable technical manual for each maintenance kit. Observe all safety precautions in accordance with the applicable technical manual, TB 385-4, and local SOP.

- |   |       |       |
|---|-------|-------|
| 1. Asked repairer to explain procedures performed and problems encountered.   | _____ | _____ |
| 2. Verified correct test setup. Proceeded to PM 3 or 7, as indicated.   | _____ | _____ |
| 3. Verified equipment fault indication. Proceeded to PM 4 or 7, as indicated.   | _____ | _____ |
| 4. Verified troubleshooting procedures. Proceeded to PM 5, 6, or 7, as indicated.                                       | _____ | _____ |
| NOTE: Whenever possible, block and schematic diagrams should be used to illustrate the guidance provided.               |       |       |
| 5. Verified adjustments or alignments. Proceeded to PM 3 or 7, as indicated.  | _____ | _____ |
| 6. Verified removal or installation of component or part. Proceeded to PM 5 or 7, if necessary.                         | _____ | _____ |
| 7. Recommended that repairer review technical material and/or receive training on equipment by skill level 2 personnel. | _____ | _____ |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**  
DA FORM 2407

**Related**

**References**

**Required**

DA PAM 738-750

FM 7-1

LOCAL SOP

TB 385-4

TM 11-5821-333-30

TM 11-6625-623-45

TM 11-6625-928-35

**Related**

**Provide Technical Guidance on Avionic Special Communications Equipment  
093-35L-2807**

**Conditions:** A repairer in your avionics shop requires technical guidance restoring one of the following pieces of special communications equipment: AN/PRC-90(\*) or AN/PRC-112(\*). Available resources include the systems, associated TMDE, and references below.

AN/PRC-90(\*). Radio Set AN/PRC-90(\*); Radio Test Set TS-24B; Radio Test Set AN/PRM-32(\*); Battery Tester TS-2530(\*)/UR; Battery Test Adapter MX-8801/PRC-90; Electronic Voltmeter AN/URM-145(\*); Signal Generator SG-1170/U; Digital Readout Electronic Counter AN/USM-459; Digital Multimeter AN/USM-486; Oscilloscope AN/USM-488; Power Supply PP-1104/G; Tool Kit TK-105/G; static work station, NSN 4940-01-087-3458; DA Form 2407, local SOP, TM 11-5820-1049-30, DA Pam 738-750, and TB 385-4.

AN/PRC-112(\*). Radio Set AN/PRC-112(\*); Radio Set PLS AN/ARS-6(V)5; TS-4360/AYD; AN/GRM-114A; Program Loader KY-913/PRC-112; Maintenance Kit MK-994A/AR; static work station, NSN 4940-01-087-3458; DA Form 2407, local SOP, TM 11-5820-1037-13&P, DA Pam 738-750, and TB 385-4.

NOTE: If any of the above equipment is obsolete or unavailable, use equivalent equipment.

**Standards:** Provided the technical guidance necessary to enable the repairer to restore the special communications equipment to operational status in accordance with the applicable technical manuals.

**Performance Measures**

NOTE: For PMs 2 through 6, refer to applicable technical manuals. Observe all safety precautions in accordance with technical manuals, TB 385-4, and local SOP.

|   | <u>GO</u> | <u>NO GO</u> |
|---|-----------|--------------|
| 1. Asked repairer to explain procedures performed and problems encountered.   | _____     | _____        |
| 2. Verified correct test setup. Proceeded to PM 3 or 7, as indicated.   | _____     | _____        |
| 3. Verified equipment fault indication. Proceeded to PM 4 or 7, as indicated.   | _____     | _____        |
| 4. Verified troubleshooting procedures. Proceeded to PM 5, 6, or 7, as indicated.                                       | _____     | _____        |
| Note: Whenever possible, block and schematic diagrams should be used to illustrate the guidance provided.               |           |              |
| 5. Verified adjustments or alignments. Proceeded to PM 3 or 7, as indicated.  | _____     | _____        |
| 6. Verified removal or installation of component or part. Proceeded to PM 5 or 7, as indicated.                         | _____     | _____        |
| 7. Recommended that repairer review technical material and/or receive training on equipment by skill level 2 personnel. | _____     | _____        |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

- DA FORM 2407
- DA PAM 738-750
- LOCAL SOP
- TB 385-4
- TM 11-5820-1037-13&P
- TM 11-5820-1049-30

**Related**

- FM 7-1
- TM 11-5820-800-13&P

Subject Area 9: Avionic Shop Duties

**Maintain a Publications Library  
093-35L-2808**

**Conditions:** Maintain a publications library in a field or garrison environment, given publications and storage location, local and higher headquarters publications indexes and publications procedures, local SOP, AR 25-400-2, DA Form 17 (Requisition for Publications and Blank Forms), DA Form 17-1 (Requisition for Publications and Blank Forms [Continuation Sheet]), DA Pam 25-30, DA Pam 25-33, DA Pam 25-40, and applicable forms and references.

**Standards:** Ensured required publications were on hand or ordered, publications were arranged and maintained properly, forms/records were properly maintained, and changes were posted in accordance with applicable references and local procedures.

| <b>Performance Measures</b>  | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|--|------------------|---------------------|
| 1. Determined all publications required by the maintenance shop or section.  | —                | —                   |
| 2. Reviewed and updated publications library SOP, as needed.   | —                | —                   |
| 3. Ensured that technical publications on hand or on order were the most current in accordance with DA Pam 25-30.  | —                | —                   |
| 4. Ensured that doctrinal, training, and organizational publications on hand or on order were the most current in accordance with DA Pam 25-30 and local listings.   | —                | —                   |
| 5. Ensured that administrative publications on hand or on order were the most current in accordance with DA Pam 25-30.   | —                | —                   |
| 6. Ensured that local and higher headquarters publications on hand or on order were the most current in accordance with DA Pam 25-30 and local listings.   | —                | —                   |
| 7. Prepared the required transmittal form in accordance with DA Pam 25-33.   | —                | —                   |
| 8. Prepared DA Forms 17 and 17-1 to request local or higher headquarters publication, in accordance with DA Pam 25-33 and local or higher headquarters publication requisitioning procedures.                    | —                | —                   |
| 9. Ensured that published changes were posted to applicable publications in accordance with DA PAM 25-40 and publication change instructions.  | —                | —                   |
| 10. Removed obsolete, rescinded, or superseded publications from library in accordance with DA Pam 25-40 and publication change instructions.  | —                | —                   |
| 11. Arranged publications in proper order and in a suitable location in accordance with DA Pam 25-40.  | —                | —                   |
| 12. Notified personnel to return loaned publications to the library in a timely manner in accordance with SOP.   | —                | —                   |
| 13. Labeled binders used for storing library publications in accordance with AR 25-400-2 and DA Pam 25-40.   | —                | —                   |
| 14. Updated The Army Publishing Directorate, local, and higher headquarters publications accounts as required in accordance with DA Pam 25-33 and local or higher headquarters publication account instructions. | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

AR 25-400-2  
DA FORM 17  
DA FORM 17-1  
DA PAM 25-30  
DA PAM 25-33  
DA PAM 25-40

**Related**

AR 25-11  
LOCAL SOP

**Verify Operation of Avionics/Electronics Shop Shelter AN/ASM-146 or AN/ASM-147  
093-35L-2809**

**Conditions:** In a field or garrison environment, given an Avionics/Electronics Shop Shelter AN/ASM-146 or AN/ASM-147 and TM 11-4940-238-14-1. Read all safety precautions in the technical manual.

**Standards:** Verified the shelter was placed in an appropriate location, grounded properly, and capable of operating test equipment to meet mission requirements.

| <b>Performance Measures</b>  | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|--|------------------|---------------------|
| 1. Verified the shelter was placed in a suitable location.   | —                | —                   |
| 2. Verified chock blocks were placed, as necessary.  | —                | —                   |
| 3. Verified shelter was grounded properly.   | —                | —                   |
| 4. Verified power cables were connected properly.  | —                | —                   |
| 5. Verified circuit breakers in shelter were operable.   | —                | —                   |
| 6. Verified correct voltage power was applied to shelter.  | —                | —                   |
| 7. Verified all tie-down bars and clamps that secured equipment and drawers during transit were removed. | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**

TM 11-4940-238-14-1

**Related**

**Verify Operation of Avionics/Electronics Shop Shelter AN/ASM-189 or AN/ASM-190  
093-35L-2810**

**Conditions:** Verify operation of an Avionics/Electronics Shop Shelter AN/ASM-189 or AN/ASM-190 in a field or garrison environment, given TM 11-4940-209-15. Read all safety precautions in the technical manual.

**Standards:** Verified the shelter was placed in an appropriate location, grounded properly, and capable of operating test equipment to meet mission requirements.

| <b>Performance Measures</b>  | <u><b>GO</b></u> | <u><b>NO GO</b></u> |
|--|------------------|---------------------|
| 1. Verified the shelter was placed in a suitable location.   | —                | —                   |
| 2. Verified chock blocks were placed, as necessary.  | —                | —                   |
| 3. Verified shelter was grounded properly.   | —                | —                   |
| 4. Verified power cables were connected properly.  | —                | —                   |
| 5. Verified circuit breakers in shelter were operable.   | —                | —                   |
| 6. Verified correct voltage power was applied to shelter.  | —                | —                   |
| 7. Verified all tie-down bars and clamps that secured equipment and drawers during transit were removed. | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are passed. Score the soldier NO-GO if any performance measure is failed. If the soldier fails any performance measure, show what was done wrong and how to do it correctly.

**References**

**Required**  
TM 11-4940-209-15

**Related**  
TB 385-4



## Skill Level 3

## Subject Area 10: Shop Supervisor Specific Duties

**Inspect Section/Shop Safety****093-SSG-3001**

**Conditions:** Perform this task given a requirement to inspect an electronic or avionics maintenance shop area and given the following references: AR 40-5, AR 385-10, DA PAM 40-501, DA PAM 385-1, TB 385-3, TB 385-4, TB MED 523, unit and local SOPs, and Unit Safety Checklist. This task can be performed in a field or garrison environment.

**Standards:** Inspection was conducted to ensure that all Army, company, and maintenance shop safety policies, regulations, and local SOPs were followed; all safety hazards were identified; environmental risk assessment to determine high risks areas was performed, and all deficiencies were corrected. Established an inspection schedule regarding what to inspect and how frequently. Recorded deficiencies and recommended corrective actions and retained these reports to check progress. Followed up to ensure deficiencies had been corrected.

| <b>Performance Measures</b>   | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|---|------------------|---------------------|
| 1. Reviewed the Army, company, and maintenance shop safety policies, regulations, and local SOPs.   | —                | —                   |
| 2. Ensured that all of the Army safety references and company and maintenance shop SOPs were being followed.  | —                | —                   |
| 3. Planned inspections so that all areas were covered periodically.   | —                | —                   |
| a. Identified hazards to the environment prior to the inspection process.   |                  |                     |
| b. Assessed the probability of environmental damage/violations using environmental risk-assessment matrices before the inspection process.  |                  |                     |
| 4. Scheduled the inspection so that normal operations were disrupted as little as possible.   | —                | —                   |
| 5. Inspected areas with the greatest potential for accident severity and those having the highest accident frequency more frequently.   | —                | —                   |
| 6. Developed a suitable checklist of items to be inspected in accordance with AR 385-10, AR 40-5, DA PAM 40-501, DA PAM 385-1, TB 385-3, TB 385-4, TB MED 523, and maintenance section/shop SOPs. | —                | —                   |
| 7. Inspected the maintenance section/shop to ensure that all test equipment calibration dates were current.   | —                | —                   |
| 8. Inspected the maintenance section/shop to ensure that all equipment and benches were properly grounded.  | —                | —                   |
| 9. Inspected the maintenance section/shop to ensure that a mounted safety board was present.  | —                | —                   |
| 10. Inspected the maintenance section/shop to ensure that rubber floor mats or similar insulating materials were provided for each repair position.   | —                | —                   |
| 11. Inspected the maintenance section/shop to ensure that all power attachments, plugs, and connectors were serviceable with no exposed current-carrying parts except the prongs.                 | —                | —                   |

| <b>Performance Measures</b>   | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|---|------------------|---------------------|
| 12. Inspected the maintenance section/shop to ensure that all physical and high-voltage hazards had been identified.                                  | —                | —                   |
| 13. Inspected the maintenance section/shop to ensure it was complying with host nation, local, state, and federal environmental laws and regulations. | —                | —                   |
| 14. Briefed the chain of command on the results, potential high-risk areas, and recommendations from the safety inspection.                           | —                | —                   |
| 15. Identified all safety hazards and took corrective action.   | —                | —                   |
| 16. Ensured that any deficiencies found were corrected.   | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

AR 385-10  
 AR 40-5  
 DA PAM 385-1  
 DA PAM 40-501  
 TB 385-3  
 TB 385-4  
 TB MED 523

**Related**

AR 200-1  
 AR 385-40  
 DA PAM 200-1  
 FM 3-04.500  
 FM 4-30.3  
 TB 43-0129  
 TC 3-34.489

**Manage Section/Shop Security  
093-SSG-3002**

**Conditions:** Given AR 25-2, AR 190-13, AR 380-5, AR 380-40, DA PAM 190-51, FM 3-19.30, and local and unit SOPs. This task can be performed in a field or garrison environment.

**Standards:** Ensured that all Army security policies and regulations and the maintenance shop and local SOPs were followed. Identified and reported all security deficiencies and ensured that all deficiencies were corrected.

| <b>Performance Measures</b>   | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|---|------------------|---------------------|
| 1. Reviewed all of the Army security policies and regulations and the maintenance shop and local SOPs.  | —                | —                   |
| 2. Ensured a work place risk analysis was performed.  | —                | —                   |
| 3. Ensured that physical security policies, regulations, and SOPs were followed.  | —                | —                   |
| 4. Ensured that classification and marking policies were followed.  | —                | —                   |
| 5. Ensured that all security control policies and regulations were followed.  | —                | —                   |
| 6. Ensured that personnel security and signal training policies were followed: <ul style="list-style-type: none"> <li>a. Initial security training and briefing for newly assigned personnel.</li> <li>b. Refresher security training for assigned personnel.</li> <li>c. Procedures for identifying and reporting insecurities.</li> </ul> | —                | —                   |
| 7. Ensured that SIGSEC policies and regulations were followed: <ul style="list-style-type: none"> <li>a. Ensured subordinates followed all Army and unit policies and regulations covering COMSEC procedures.</li> <li>b. Ensured subordinates followed all Army and unit policies and regulations covering ELSEC procedures.</li> </ul>    | —                | —                   |
| 8. Identified and reported all security deficiencies and ensured that all deficiencies were corrected.  | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

| <b>Required</b> | <b>Related</b>  |
|-----------------|-----------------|
| AR 190-13       | AR 5-12         |
| AR 25-2         | DA PAM 25-380-2 |
| AR 380-40       | FM 24-33        |
| AR 380-5        | FM 34-60        |
| DA PAM 190-51   | FM 4-30.3       |
| FM 3-19.30      |                 |

**Maintain Section/Shop Calibration Program  
093-SSG-3003**

**Conditions:** Given the maintenance section/shop calibration program, to include TMDE master listing for the program; DA Form 3758-R (Calibration and Repair Requirements Worksheet); DA Label 80 (US Army Calibrated Instrument); TB 43-180; TB 750-25; and company SOPs. This task can be performed in a field or garrison environment.

**Standards:** Maintained a master listing for all calibrated equipment assigned to the maintenance section/shop in accordance with TB 43-180, TB 750-25, and company SOPs. Reviewed the section/shop calibration listing for equipment due calibration on a monthly basis and updated status of all calibration equipment still turned in to the calibration support unit.

| <b>Performance Measures</b>   | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|---|------------------|---------------------|
| 1. Identified all equipment listed on section/shop hand receipts that might require a calibration label: <ul style="list-style-type: none"> <li>a. Test equipment.</li> <li>b. Equipment modules.</li> <li>c. Dummy loads.</li> <li>d. Voltage test probes.</li> <li>e. Radiac equipment.</li> <li>f. Motor pool equipment.</li> <li>g. Power supplies.</li> </ul>  | —                | —                   |
| 2. Determined which equipment identified was listed in TB 43-180: <ul style="list-style-type: none"> <li>a. Identified equipment that required calibration.</li> <li>b. Identified CNR equipment.</li> </ul>  | —                | —                   |
| 3. Prepared DA Form 3758-R if any new equipment not listed in TB 43-180 required calibration.   | —                | —                   |
| 4. Maintained a master listing for all calibrated items in the maintenance section/shop.  | —                | —                   |
| 5. Scheduled equipment for calibration: <ul style="list-style-type: none"> <li>a. Staggered like equipment, when possible, so that equipment was always available on site.</li> <li>b. Assigned a higher priority for critical TMDE when necessary.</li> <li>c. Scheduled plug-in modules and accessories for calibration with the major piece of equipment.</li> <li>d. Reviewed signature cards and orders, as required locally, to update customer files and for the first appointment.</li> </ul> | —                | —                   |
| 6. Prepared CNR labels for remaining equipment, as required.  | —                | —                   |
| 7. Turned in/picked up equipment from the calibration facility: <ul style="list-style-type: none"> <li>a. Turned in equipment with a minimum of accessories and covers.</li> <li>b. Obtained signed and dated receipt for equipment.</li> <li>c. Inspected equipment for damage and accessories before signing.</li> <li>d. Obtained calibration listings when available.</li> </ul>  | —                | —                   |
| 8. Updated calibration listing: <ul style="list-style-type: none"> <li>a. Verified calibration due dates.</li> <li>b. Deleted entries.</li> <li>c. Added entries.</li> </ul>  | —                | —                   |

**Performance Measures**

**GO**    **NO GO**

- 9. Maintained a temporary storage area for CBU equipment:
  - a. Identified CBU equipment as appropriate.
  - b. Identified a limited access storage area.
  - c. Prepared DA Label 80 for CBU.
  - d. Updated calibration listing for CBU items.
  - e. Stored equipment until required.
  - f. Had equipment calibrated prior to use.

\_\_\_\_\_    \_\_\_\_\_

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

- DA FORM 3758-R
- DA LABEL 80
- TB 43-180
- TB 750-25

**Related**

**Submit a Quality Deficiency Report (QDR)  
093-SSG-3004**

**Conditions:** Given the requirement to submit a quality deficiency report for a serious or recurring maintenance problem. You are given the following items: AR 95-1, AR 725-50, DA Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 2407 (Maintenance Request), DD Form 1575 (Suspended Tag-Materiel), DD Form 2332 (Product Quality Deficiency Report Exhibit), DA Pam 738-750, DA PAM 738-751, SF Form 368 (Product Quality Deficiency Report), and TB 43-0001-series for equipment used. This task can be performed in a field or garrison environment.

**Standards:** Identified conditions that indicated a quality deficiency existed, prepared the appropriate report form, and identified and retained of QDR exhibits that were disposed of.

**Performance Measures**

GO      NO GO

NOTE: Follow steps 1-10 for all equipment except for aviation equipment. For aviation equipment follow steps 11-18.

- |   |   |  |
|---|---|--|
| <ol style="list-style-type: none"> <li>1. Identified one or more conditions that indicated a quality deficiency existed.                     <ol style="list-style-type: none"> <li>a. A condition in or with the equipment dangerous to people, other equipment, or the mission.</li> <li>b. An item or equipment that did not work right or lasted as long as it should because of bad design or materials.</li> <li>c. Items that were not within the approved equipment specifications.</li> <li>d. Low-quality workmanship.</li> <li>e. Dangerous situations due to incorrect or missing data.</li> <li>f. Maintenance problems.</li> <li>g. Conditions that prevented use of the equipment.</li> <li>h. Repeated problems that took a lot of time and had no solution in sight.</li> <li>i. Problems requested to be reported by the NMP.</li> <li>j. Corrosion problems in or on parts, components, assemblies, weapon systems, and/or equipment.</li> </ol> </li> <li>2. Identified defect as a Category I or Category II deficiency.                     <ol style="list-style-type: none"> <li>a. Identified as a Category 1 deficiency any defect that--                             <ol style="list-style-type: none"> <li>(1) May have caused death, injury, or severe job illness.</li> <li>(2) Would have caused loss or major damage to a weapon system.</li> <li>(3) Would have critically restricted the combat readiness capabilities of the unit.</li> </ol> </li> <li>b. Identified any defect as Category II deficiency that did not meet the criteria for a Category I deficiency.</li> </ol> </li> <li>3. Prepared appropriate QDR for Category I or Category II.                     <ol style="list-style-type: none"> <li>a. Prepared Category I report in message format copy of SF Form 368 in accordance with DA Pam 738-750, Chapter 11.</li> <li>b. Prepared Category II report on SF Form 368 in accordance with DA Pam 738-750, Chapter 11.</li> </ol> </li> <li>4. Forwarded SF Form 368 to MSC within 48 hours (Category I deficiencies) or 5 working days (Category II deficiencies) after the defect or problem was found.</li> </ol> | <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> | <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> |
|---|---|--|
- NOTE: Category I reports may be phoned in or brought in for immediate assistance, with message following within the 48-hour time frame.

| <b>Performance Measures</b>  | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|--|------------------|---------------------|
| 7. Sent one copy of the SF Form 368 to the support maintenance activity.   | —                | —                   |
| NOTE: Send SF Form 368 even if –   |                  |                     |
| a. Correspondence indicated the problem was known to exist.  |                  |                     |
| b. Other units have sent in a QDR on the same problem.   |                  |                     |
| 8. Identified defective equipment as exhibits.   | —                | —                   |
| 9. Retained QDR exhibits in accordance with DA Pam 738-750.  | —                | —                   |
| 10. Followed disposition instructions received from the MSC action office responsible for the exhibits.  | —                | —                   |
| NOTE: Follow steps 11-18 for preparation of quality deficiency reports on aviation equipment.  |                  |                     |
| 11. Identified any of the following conditions that indicated an aviation quality deficiency existed, in accordance with DA Pam 738-751, Chapter 3.  | —                | —                   |
| a. A condition involving personnel safety or SOF as defined in AR 95-1.  |                  |                     |
| b. The suspected or confirmed materiel failure was the cause of a Class A, B, C, D, or E aircraft mishap.  |                  |                     |
| c. A materiel failure or fault that would cause a hazard to personnel, equipment, or safe completion of the mission.   |                  |                     |
| d. The equipment did not work properly because of bad design and / or materiel, or low-quality workmanship during manufacture, modification, conversion, repair, overhaul, or rebuild.   |                  |                     |
| e. Environmental conditions that caused aircraft, or aviation associated equipment, to include mission related equipment, components and modules, repair parts, systems, and / or subsystem to fail.                           |                  |                     |
| f. During initial test or use, found an SFDLR item to be defective and such defect was not caused by user accident, misuse, improper installation and / or operation, unauthorized repair, or alteration.                      |                  |                     |
| 12. Identified deficiencies as Category I or Category II.  | —                | —                   |
| a. Identified any of the following as a Category I deficiency.   |                  |                     |
| (1) An unsafe condition, operation or maintenance procedure for aircraft, mission related equipment, component and module, or repair part whose use was critical to airworthiness.   |                  |                     |
| (2) Any failure that could be expected to cause loss of the aircraft and /or serious injuries to the air crew or ground personnel.   |                  |                     |
| (3) The reason for failure, identified or suspected, did not provide enough warning for the aircrew to complete a safe landing and it was reasonable to assume that the problem could be present in other aircraft of the MDS. |                  |                     |
| (4) Incorrect or missing data in technical publications that may cause a hazardous operational or maintenance problem.   |                  |                     |
| b. Identified as a Category II deficiency any defect that did not meet the criteria for a Category I deficiency.   |                  |                     |
| 13. Prepared SF Form 368 for Category I or Category II deficiency in accordance with DA Pam 738-751, Chapter 3.  | —                | —                   |
| 14. Submitted a Category I or Category II report in accordance with DA Pam 738-751.  | —                | —                   |

| <b>Performance Measures</b>   | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|---|------------------|---------------------|
| 15. Distributed file copies of the SF Form 368 in accordance with DA Pam 738-751.   | —                | —                   |
| NOTE: Send SF Form 368 even if –  |                  |                     |
| a. The manufacturers' representatives have shown that they are aware of the problem.  |                  |                     |
| b. Another unit within your command has already sent a deficiency report on the same problem.   |                  |                     |
| 16. Identified defective equipment as exhibits.   | —                | —                   |
| 17. Received acknowledgment of receipt of Category I report within 48 hours or Category II report within 7 days from AMCOM. The acknowledgement included the disposition instructions for exhibits. | —                | —                   |
| 18. Followed disposition instructions received from the AMCOM action office for the exhibits.   | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

AR 725-50  
 AR 95-1  
 DA FORM 2404  
 DA FORM 2407  
 DA PAM 738-750  
 DA PAM 738-751  
 DD FORM 1575  
 DD FORM 2332  
 SF FORM 368  
 TB 43-0001-series

**Related**

AR 702-7  
 AR 702-7-1



**Submit Equipment Improvement Recommendation (EIR)  
093-SSG-3005**

**Conditions:** You have found a better way to repair a piece of electronic equipment. Submit an EIR, given the following items AR 672-20, DA PAM 738-750, and SF Form 368. This task can be performed in a field or garrison environment.

**Standards:** Prepared the appropriate report forms for a recommended equipment improvement and checked AR 672-20 to see if the EIR qualified as a suggestion.

| <b>Performance Measures</b>  | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|--|------------------|---------------------|
| 1. Identified conditions that indicated a need to improve the performance and /or maintenance of equipment:  | _____            | _____               |
| a. A condition in or with the equipment that was dangerous to people, other equipment, or the mission.   |                  |                     |
| b. An item or piece of equipment that did not work right or last as long as it should because of bad design or materials.                            |                  |                     |
| c. Items that were not within the approved equipment specifications.   |                  |                     |
| d. Low-quality workmanship.  |                  |                     |
| e. Dangerous situations due to incorrect or missing data.  |                  |                     |
| f. Maintenance problems.   |                  |                     |
| g. Conditions that prevented using the equipment.  |                  |                     |
| h. Repeated problems that took a lot of time with no solution in sight.  |                  |                     |
| i. Problems requested to be reported by the NMP.   |                  |                     |
| 2. Reported Category I or Category II recommendations for improvements.  | _____            | _____               |
| a. Reported Category I recommendations for any of the following improvements.  |                  |                     |
| (1) Improvements that prevent death, injury, or severe job illness.  |                  |                     |
| (2) Improvements that prevent loss or major damage to equipment.   |                  |                     |
| (3) Improvements that will affect the combat readiness capabilities of the unit.   |                  |                     |
| b. Reported as a Category II recommendation any recommendation that does not meet the criteria of a Category I equipment improvement recommendation. |                  |                     |
| 3. Sent in a Category I or Category II equipment improvement recommendation.   | _____            | _____               |
| a. Prepared SF Form 368 in accordance with DA Pam 738-750, Chapter 11.   |                  |                     |
| b. Sent a message within 48 hours (Category I recommendation) or 5 days (Category II recommendation) after defect or problem was found.              |                  |                     |
| c. Kept one copy of the SF Form 368 until the Army screening point closed the case.  |                  |                     |
| d. Sent one copy of the SF Form 368 to the support maintenance activity.   |                  |                     |
| 4. Checked AR 672-20 to see if the EIR qualified as a suggestion.  | _____            | _____               |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

AR 672-20  
DA PAM 738-750  
SF FORM 368

**Related**

DA PAM 738-751

**Plan Work Flow**  
**093-SSG-3006**

**Conditions:** Perform this task given DA Forms 2407 or DA Form 5990-E (Maintenance Request)/job packets with various issue priority designators, a visible index file showing the shop workload summary, and TM 38-L09-11. This task can be performed in a field or garrison environment.

**Standards:** Distributed all DA Forms 2407 or DA Form 5990-E/job packets by issue priority designators, highest priorities first. Ensured the visible index file were up to date, legible, and complete according to TM 38-L09-11.

| <b>Performance Measures</b>  | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|--|------------------|---------------------|
| 1. Arranged the DA Forms 2407/job packets by issue priority designators, highest priorities first. | —                | —                   |
| 2. Used the DA Forms 2407/job packets in the same order to assign jobs to repairers.               | —                | —                   |
| 3. Monitored the work as the jobs went through the repair process.                                 | —                | —                   |
| 4. Assigned new jobs to the repairers as they completed the ones they were assigned.               | —                | —                   |
| 5. Reviewed all paperwork within the job packets for completeness.                                 | —                | —                   |
| 6. Updated the visible index file.   | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

DA FORM 2407  
DA FORM 5990-E  
TM 38-L09-11

**Related**

DA FORM 2407-1  
DA PAM 738-750  
DA PAM 738-751  
FM 4-30.3

**Direct Performance of Preventive Maintenance  
093-SSG-3007**

**Conditions:** Perform this task given personnel to perform preventive maintenance, DA Form 2408-14 (Uncorrected Fault Record), DA Form 2404 or DA Form 5988-E (Equipment Inspection and Maintenance Worksheet), DD Form 314 (Preventive Maintenance Schedule and Record), DA PAM 738-750, DA PAM 738-751, and Vehicle -10 series technical manuals. This task can be performed in a field or garrison environment.

NOTE: All the information from DA Form 2408-14 (Uncorrected Fault Record) is now included in DA Form 5988-E.

**Standards:** Performed all preventive maintenance checks and services according to the applicable -10 series technical manuals. Completed DA Form 2404 or DA Form 5988-E, DA Form 2408-14, and DD Form 314 according to DA PAM 738-750 or DA PAM 738-751.

| <b>Performance Measures</b>  | <u><b>GO</b></u> | <u><b>NO GO</b></u> |
|--|------------------|---------------------|
| 1. Coordinated with the motor pool section prior to performing section/shop vehicle preventive maintenance checks and services.            | —                | —                   |
| 2. Reviewed the DD Form 314 and the applicable -10 series technical manuals to conduct weekly vehicle PMCS.                                | —                | —                   |
| 3. Identified hazards to the environment before starting preventive maintenance.   | —                | —                   |
| 4. Assigned jobs and ensured that repairers knew what PMCS must be performed.  | —                | —                   |
| 5. Spot-checked the work being performed and ensured that the repairers were using the applicable technical manuals.                       | —                | —                   |
| 6. Assessed the probability of environmental damage/violations using environmental risk-assessment matrices during preventive maintenance. | —                | —                   |
| 7. Spot-checked corrective actions taken for all defects listed on DA Form 2404.   | —                | —                   |
| 8. Coordinated with the maintenance sergeant to repair vehicles requiring services beyond the driver's responsibility.                     | —                | —                   |
| a. Ensured the repairer placed a drip pan under any equipment leaking fluids onto the ground.  |                  |                     |
| b. Made sure parts for repair that were not available, were entered on DA Form 5988-E or DA Form 2408-14.                                  |                  |                     |
| 9. Checked the DD Form 314 for correctness.  | —                | —                   |
| 10. Reported vehicle status to section/shop supervisor.  | —                | —                   |
| 11. Briefed the chain of command on any observed environmental potential high-risk areas during preventive maintenance.                    | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

DA FORM 2404  
DA FORM 2408-14

**Related**

AR 200-1  
DA PAM 200-1

**References**

**Required**

DA FORM 5988-E

DA PAM 738-750

DA PAM 738-751

DD FORM 314

**Related**

FM 4-30.3

TC 3-34.489

**Provide Technical Assistance to Repairers**  
**093-SSG-3008**

**Conditions:** A repairer in the electronic/avionic maintenance shop requires technical assistance. Provide needed assistance given DA Pam 738-750, DA Pam 738-751, and TB 385-4. This task can be performed in a field or garrison environment.

**Standards:** Provided technical assistance that enabled the repairer to perform the repair procedures correctly.

| <b>Performance Measures</b>   | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|---|------------------|---------------------|
| 1. Determined the type of assistance needed by the repairer, such as isolating the malfunction, repairing the malfunction, or making proper entries on the paperwork. | —                | —                   |
| 2. Reviewed DA Form 2404 or DA Form 5988-E and DA Form 2407 or DA Form 5990-E to determine reason for maintenance or repair.  | —                | —                   |
| 3. Verified repairer observed WARNING, CAUTION, and NOTE statements in applicable references and observed all safety precautions.                                     | —                | —                   |
| 4. Reviewed the repair procedures performed by the repairer.  | —                | —                   |
| 5. Provided technical assistance to the repairer.   | —                | —                   |
| 6. Counseled repairer on areas of technical weakness.   | —                | —                   |
| 7. Recommended technical material and training to increase repairer's expertise.  | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

- DA FORM 2404
- DA FORM 2407
- DA FORM 5988-E
- DA FORM 5990-E
- DA PAM 738-750
- DA PAM 738-751
- TB 385-4

**Related**

**Perform Initial Inspections  
093-SSG-3009**

**Conditions:** Given the applicable technical manuals, equipment to be inspected, DA Form 2404 or DA Form 5988-E, DA Form 2407 or DA Form 5990-E, DA Pam 738-750, and DA Pam 738-751. This task can be performed in a field or garrison environment.

**Standards:** Performed the initial inspection by ensuring that the equipment was repairable according to the applicable technical manuals, all defects had been found, and all maintenance forms had been completed according to DA Pam 738-750 or DA Pam 738-751.

| <b>Performance Measures</b>   | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|---|------------------|---------------------|
| 1. Checked submitted paperwork for completeness and accuracy.   | —                | —                   |
| 2. Inspected the equipment for physical damage and determined if it was feasible to repair the equipment. | —                | —                   |
| 3. Ensured that operator maintenance had been performed on the equipment.                                 | —                | —                   |
| 4. Inventoried the equipment to ensure that it was complete.  | —                | —                   |
| 5. Ensured that all MWOs had been completed.  | —                | —                   |
| 6. Performed self-tests or checks on the equipment, if necessary.   | —                | —                   |
| 7. Recorded all defects or reasons for rejecting the equipment on DA Form 2404 or DA Form 5988-E.         | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

DA FORM 2404  
 DA FORM 2407  
 DA FORM 5988-E  
 DA FORM 5990-E  
 DA PAM 738-750  
 DA PAM 738-751

**Related**

DA PAM 750-1  
 FM 4-30.3  
 TM 750-245-4

## Perform Final Inspections

### 093-SSG-3010

**Conditions:** Given the applicable technical manuals, equipment to be inspected, DA Form 2404 or DA Form 5988-E, DA Form 2407 or DA Form 5990-E, DA PAM 738-750, and DA PAM 738-751. This task can be performed in a field or garrison environment.

**Standards:** Performed final inspection. Ensured that the equipment was complete according to the applicable technical manuals, all defects identified in previous inspections had been corrected, any additional defects had been recorded on DA Form 2404 or DA Form 5988-E, and all forms had been completed according to DA Pam 738-750 or DA Pam 738-751.

| <b>Performance Measures</b>   | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|---|------------------|---------------------|
| 1. Checked the equipment to determine if it was complete and that all defects found on the initial and in-process inspections had been corrected. | —                | —                   |
| 2. Ensured that all forms and records were complete and correct.  | —                | —                   |
| 3. Recorded any additional defects on DA Form 2404 or DA Form 5988-E and returned the equipment to production control.                            | —                | —                   |
| 4. Signed and dated DA Form 2407 or DA Form 5990-E when the equipment passed inspection.  | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

#### References

##### Required

DA FORM 2404  
 DA FORM 2407  
 DA FORM 5988-E  
 DA FORM 5990-E  
 DA PAM 738-750  
 DA PAM 738-751

##### Related

DA PAM 750-1  
 FM 4-30.3  
 TM 750-245-4

**Write a Standing Operating Procedure (SOP)**

**093-SSG-3011**

**Conditions:** Given the unit's old standing operating procedure, AR 750-1, DA PAM 600-67, FM 4-30.3 (FM 9-43-1), FM 24-16, FM 101-5, and TC 43-4. This task can be performed in a field or garrison environment.

**Standards:** Wrote an SOP that was reviewed by the supervisor/commander and approved by the commander/supervisor. Implemented all recommended changes.

| <b>Performance Measures</b>  | <u><b>GO</b></u> | <u><b>NO GO</b></u> |
|--|------------------|---------------------|
| 1. Developed a basic SOP format to ensure it met organization's/element's specific needs and/or requirements for the maintenance facility: | _____            | _____               |
| a. Purpose statement.  |                  |                     |
| b. Scope statement.  |                  |                     |
| c. Organization statement.   |                  |                     |
| d. Conformity statement.   |                  |                     |
| e. References.   |                  |                     |
| f. Annexes.  |                  |                     |
| 2. Included guidance in the SOP on the following as they pertained only to the maintenance facility:                                       | _____            | _____               |
| a. Personnel administration.   |                  |                     |
| b. Security.   |                  |                     |
| c. Security and intelligence.  |                  |                     |
| d. Area security.  |                  |                     |
| e. Physical security of weapons and property.  |                  |                     |
| f. Safety program.   |                  |                     |
| g. Maintenance operations.   |                  |                     |
| h. Management of hand receipts.  |                  |                     |
| i. Standard warnings.  |                  |                     |
| j. Alert procedures.   |                  |                     |
| k. NBC warfare.  |                  |                     |
| l. Defense against nuclear attack.   |                  |                     |
| m. Logistics.  |                  |                     |
| n. Motor pool operations.  |                  |                     |
| o. Motor movement and traffic control.   |                  |                     |
| p. Tactical operations.  |                  |                     |
| 3. Ensured that all references used were current.  | _____            | _____               |
| 4. Staffed the draft through the supervisor/commander.   | _____            | _____               |
| 5. Implemented any approved SOP changes.   | _____            | _____               |
| 6. Had the supervisor/commander sign the final version of the SOP.   | _____            | _____               |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

AR 750-1  
DA PAM 600-67  
FM 101-5

**Related**



**References**

**Required**

FM 24-16

FM 4-30.3

TC 43-4

**Related**

**Perform In-Process Inspections**  
**093-SSG-3012**

**Conditions:** Given applicable inspection forms, a repairer performing repairs on equipment, applicable technical manuals, DA PAM 738-750, and DA PAM 738-751. This task can be performed in a field or garrison environment.

**Standards:** Performed in-process inspection. Ensured that the proper tools and equipment were being used and all safety rules and warnings were followed according to the applicable technical manuals. Completed all forms according to DA PAM 738-750 or DA PAM 738-751. Reported inspection results.

| <b>Performance Measures</b>   | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|---|------------------|---------------------|
| 1. Ensured that the proper tools and equipment were used.   | —                | —                   |
| 2. Ensured that the proper repair procedures were followed.   | —                | —                   |
| 3. Ensured that only authorized repair parts and supplies were used.  | —                | —                   |
| 4. Ensured that only authorized repairs were performed on the equipment.  | —                | —                   |
| 5. Ensured that only authorized personnel made the repairs.   | —                | —                   |
| 6. Ensured that all safety rules and warnings were followed.  | —                | —                   |
| 7. Ensured that all forms were filled out correctly.  | —                | —                   |
| 8. Made an oral or written report of the inspection to the repair section chief and the quality control section supervisor. | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

DA PAM 738-750

DA PAM 738-751

**Related**

FM 4-30.3

TM 750-245-4

**Maintain Property Accountability  
093-SSG-3013**

**Conditions:** Perform this task given a quarterly reviewed of all hand receipts with hand-receipt holders in the maintenance section/shop, issued new equipment, and tagged unserviceable equipment for turn-in; AR 25-400-2, AR 710-2, DA Form 2062 (Hand Receipt/Annex Number), DA PAM 710-2-1, Hand receipts, applicable equipment, and applicable technical manuals. This task can be performed in a field or garrison environment.

**Standards:** Issued supplies and equipment to hand receipt holders while maintaining property and supply accountability.

| <b>Performance Measures</b>  | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|--|------------------|---------------------|
| 1. Notified hand receipt holders of quarterly inventory.   | —                | —                   |
| 2. Reviewed file copies of all hand receipts and signature cards for each maintenance section/shop.                                  | —                | —                   |
| 3. Assembled all new equipment to be issued into separate groups for issuing to hand receipt holders during the quarterly inventory. | —                | —                   |
| 4. Issued new equipment to hand receipt holders before inventorying.   | —                | —                   |
| 5. Inventoried hand receipts.  | —                | —                   |
| 6. Updated each hand receipt holder's equipment shortage list, as needed.  | —                | —                   |
| 7. Ensured that only authorized personnel on the hand receipt holder signature card signed the hand receipt.                         | —                | —                   |
| 8. Ensured that all forms were filled out correctly.   | —                | —                   |
| 9. Filed hand receipts in appropriate hand receipt holder files.   | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

- AR 25-400-2
- AR 710-2
- DA FORM 2062
- DA PAM 710-2-1

**Related**

**Assess Battlefield Damage**  
**093-SSG-3014**

**Conditions:** Supervise the performance of an organizational maintenance team or a direct support maintenance support team performing battlefield assessment given a disabled vehicle or equipment, repairers to assess the equipment, applicable technical manuals -10, -20, -30, repair parts manuals, tool kits, DA Form 2404 or DA Form 5988-E (Equipment Inspection and Maintenance Worksheet), DA Form 2407 or DA Form 5990-E (Maintenance Request), DA PAM 738-750, DA PAM 738-751, DD Form 1577 (Unserviceable (Condemned) Tag - Materiel), DD Form 1577-1 (Unserviceable (Condemned) Label - Materiel), DD Form 1577-2 (Unserviceable (Repairable) Tag - Materiel), DD Form 1577-3 (Unserviceable (Repairable) Label - Materiel), FM 4-30.3 (FM 9-43-1), and FM 9-43-2. This task can be performed in a field or garrison environment.

**Standards:** Supervised the organizational maintenance team or direct support MST that identified and performed repairs needed to restore a disabled piece of equipment to the minimum essential combat capabilities necessary to support a specific combat mission or to enable the equipment to self-recover. Completed all required paperwork according to DA Pam 738-750, DA Pam 738-751, FM 4-30.3 (FM 9-43-1), and FM 9-43-2.

| <b>Performance Measures</b>   | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|---|------------------|---------------------|
| 1. Briefed the organizational maintenance team or direct support MST on the upcoming mission to assess battlefield damage: <ul style="list-style-type: none"> <li>a. Identified point of contact at unit/site.</li> <li>b. Identified the equipment that was to be assessed for battlefield damage.</li> <li>c. Identified the equipment that was needed for the upcoming mission.</li> <li>d. Explained logistics support.</li> <li>e. Planned primary and secondary routes to unit.</li> <li>f. Ensured team received a copy of supported units' radio frequencies and call signs.</li> </ul> | —                | —                   |
| 2. Monitored assigned personnel to the team according to their qualifications and availability to meet the mission needs.   | —                | —                   |
| 3. Arranged for transportation to the site.   | —                | —                   |
| 4. Ensured that the proper battlefield assessment procedures were followed: <ul style="list-style-type: none"> <li>a. Reviewed the operator/crew assessment and the safety checks made.</li> <li>b. Interviewed the operator/crew if available.</li> <li>c. Conducted visual inspection.</li> <li>d. Performed self-test.</li> <li>e. Tested equipment with the organizational/direct support maintenance equipment.</li> </ul>   | —                | —                   |
| 5. Ensured that MST provided technical assistance to the organizational maintenance team as required.   | —                | —                   |
| 6. Ensured that MST prioritized repairs according to battlefield damage time guidelines.  | —                | —                   |

**Performance Measures**

**GO**    **NO GO**

- |  |                           |
|--|---------------------------|
| <p>7. Ensured that all required maintenance forms were filled out correctly in accordance with DA Pam 738-750 and DA Pam 738-751:</p> <ul style="list-style-type: none"> <li>a. DA Form 2404 or DA Form 5988-E</li> <li>b. DA Form 2407 or DA Form 5990-E</li> <li>c. DD Form 1577</li> <li>d. DD Form 1577-1</li> <li>e. DD Form 1577-2</li> <li>f. DD Form 1577-3</li> </ul> <p>8. Ensured a system assessment summary was filled out correctly and turned in.</p> | <p>_____</p> <p>_____</p> |
|--|---------------------------|

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

- DA FORM 2404
- DA FORM 2407
- DA FORM 5988-E
- DA FORM 5990-E
- DA PAM 738-750
- DA PAM 738-751
- DD FORM 1577
- DD FORM 1577-1
- DD FORM 1577-2
- DD FORM 1577-3
- FM 4-30.3
- FM 9-43-2

**Related**

- FM 4-30.3
- TM 750-245-4

**Manage Demand Supported Repair Parts Listed on the Prescribed Load List (PLL)  
093-SSG-3015**

**Conditions:** This task will be conducted during the normal performance of your daily duties within an electronic/avionics maintenance shop. You will manage demand-supported repair parts for an electronic/avionics maintenance shop given the following items: AR 710-2, DA PAM 710-2-1, DA Form 2063-R (Prescribed Load List), DA Form 2064 (Document Register for Supply Actions), DA Form 3318 (Records of Demands - Title Insert), copy of FEDLOG discs, unit's initial mandatory parts list, unit's prescribed load list, and technical part manuals. This task can be performed in a field or garrison environment.

**Standards:** Completed review and corrected the PLL in accordance with the equipment technical parts manual, AR 710-2, and DA PAM 710-2-1 for the electronics/avionics repair parts listed on the PLL.

| <b>Performance Measures</b>  | <u><b>GO</b></u> | <u><b>NO GO</b></u> |
|--|------------------|---------------------|
| 1. Reviewed the units PLL for electronics/avionics maintenance shop's repair parts.  | —                | —                   |
| 2. Verified that the electronics/avionics shop's repair parts qualify to be on the PLL list.   | —                | —                   |
| 3. Reviewed demand-supported unit maintenance repair parts documents and ensured they met the following: <ul style="list-style-type: none"> <li>a. Three demands were made within the control period of 180 days for Active Army.</li> <li>b. Parts are essential and have a maintenance use code of "O" (except for nontactical telecommunications systems, air traffic control, or lifesaving systems).</li> </ul>                           | —                | —                   |
| 4. Reviewed non-demand-supported unit maintenance repair parts documents and ensured they met the following: <ul style="list-style-type: none"> <li>a. Is approved by the first general officer staff level in the chain of command required in order to stock.</li> <li>b. Parts essential and have a maintenance use code of "O" (except for nontactical telecommunications systems, air traffic control, or lifesaving systems).</li> </ul> | —                | —                   |
| 5. Reviewed the initial stockage of repair parts for newly introduced end items as identified by SLAC deck: <ul style="list-style-type: none"> <li>a. The stockage level will not be reduced the first year.</li> <li>b. If the end item is under warranty, the one year will begin on expiration of warranty.</li> </ul>  | —                | —                   |
| 6. Reviewed the mandatory stockage of repair parts as identified in the IMPL.  | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**  
AR 710-2  
DA FORM 2063-R  
DA FORM 2064  
DA FORM 3318  
DA PAM 710-2-1  
FEDLOG

**Related**  
FM 4-30.3

**Monitor Bench Stock Operations  
093-SSG-3016**

**Conditions:** Perform this task given AR 710-2, DA PAM 710-2-2, and a copy of FEDLOG discs. This task can be performed in a field or garrison environment.

**Standards:** Maintained bench stock in accordance with AR 710-2 and DA PAM 710-2-2.

| <b>Performance Measures</b>  | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|--|------------------|---------------------|
| 1. Ensured that the bench stock was made up of low-cost expendable items.                      | —                | —                   |
| 2. Ensured that the bench stock was stored near the work area.                                 | —                | —                   |
| 3. Ensured that bench stock replenishment tags and lists were maintained with the bench stock. | —                | —                   |
| 4. Ensured that bench stock was ordered on a prescribed schedule or as needed.                 | —                | —                   |
| 5. Ensured that the bench stock was ordered under the correct UND.                             | —                | —                   |
| 6. Ensured that the bench stock was reviewed semiannually.                                     | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**  
AR 710-2  
DA PAM 710-2-2  
FEDLOG

**Related**

**Monitor Shop Stock Operations  
093-SSG-3017**

**Conditions:** Perform this task given a current copy of the shop stock list, AR 710-2, DA Pam 710-2-2, and a copy of FEDLOG discs. This task can be performed in a field or garrison environment.

**Standards:** Maintained the shop stock according to AR 710-2 and DA Pam 710-2-2.

| <b>Performance Measures</b>   | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|---|------------------|---------------------|
| 1. Ensured repair parts and consumables listed on the shop stock met the criteria listed in AR 710-2 and DA Pam 710-2-2.            | —                | —                   |
| 2. Ensured each item was demand-supported.  | —                | —                   |
| 3. Ensured stockage levels were developed in accordance with DA Pam 710-2-2.  | —                | —                   |
| 4. Ensured excess stocks were turned in within 10 days of review.   | —                | —                   |
| 5. Ensured replenishment of stock was based on the ROP.   | —                | —                   |
| 6. Ensured CCI repair parts required by COMSEC maintenance activities for diagnostic purpose were hand-receipted on temporary loan. | —                | —                   |
| 7. Ensured the shop stock was inventoried during the scheduled review period.   | —                | —                   |
| 8. Ensured the shop stock list was signed by the unit commander and submitted to the SSA.   | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**  
AR 710-2  
DA PAM 710-2-2  
FEDLOG

**Related**



**Inspect Maintenance Support Team Operations  
093-SSG-3019**

**Conditions:** Perform this task given the necessary personnel to perform an electronics/avionics maintenance support team operation, DA Pam 611-21, DA Pam 738-750, DA Pam 738-751, and FM 4-30.3 (FM 9-43-1). This task can be performed in a field or garrison environment.

**Standards:** Ensured the correct military occupational specialty holders were assigned to a support team, briefed, and provided with transportation.

| <b>Performance Measures</b>   | <u><b>GO</b></u> | <u><b>NO GO</b></u> |
|---|------------------|---------------------|
| 1. Monitored assigned personnel according to their qualifications and availability.   | —                | —                   |
| 2. Arranged for transportation to the site.   | —                | —                   |
| 3. Briefed the support team on mission requirements.                                  | —                | —                   |
| a. Identified point of contact at unit.   |                  |                     |
| b. Identified equipment needed for the support mission.                               |                  |                     |
| c. Explained logistics support.   |                  |                     |
| d. Planned primary and secondary routes to unit.                                      |                  |                     |
| e. Ensured team received a copy of supported units' radio frequencies and call signs. |                  |                     |
| 4. Provided technical assistance to the support team as required.                     | —                | —                   |
| 5. Ensured that all maintenance forms were filled out correctly.                      | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

DA PAM 611-21  
DA PAM 738-750  
DA PAM 738-751  
FM 4-30.3

**Related**

FM 3-25.26

**Inspect Maintenance Reporting and Management Data**  
**093-SSG-3020**

**Conditions:** As a senior repairer, one of your responsibilities is to inspect the paperwork used in an electronic/avionics maintenance facility. You must inspect and manage all of the maintenance forms and records used in reporting the maintenance status for equipment repaired in the maintenance facility. The following forms, records and publications will be available if needed for each piece of equipment job-ordered: DA Form 2402 (Exchange Tag), DA Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 2405 (Maintenance Request Register), DA Form 2407 (Maintenance Request), DA Form 2407-1 (Maintenance Request Continuation Sheet), DA Form 2408-12 (Army Aviator's Flight Record), DA Form 2408-13 (Aircraft Status Information Record), DA Form 2408-13-1 (Aircraft Maintenance and Inspection Record), DA Form 2410 (Component Removal and Repair/Overhaul Record), DD Form 1574 (Serviceable Tag - Materiel), DD Form 1574-1 (Serviceable Label - Materiel), DD Form 1575, DD Form 1575-1 (Suspended Label - Materiel), DD Form 1576 (Test/Modification Tag - Materiel), DD Form 1576-1 (Test/Modification Label - Materiel), DD Form 1577, DD Form 1577-1, DD Form 1577-2, DD Form 1577-3, DA PAM 738-750, and DA PAM 738-751. This task can be performed in a field or garrison environment.

**Standards:** Inspected the electronics/avionics maintenance forms and records for errors and forms missing from the job packets.

| <b>Performance Measures</b>  | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|--|------------------|---------------------|
| 1. Located closed-out and active job order packets within the electronics/avionics maintenance facility.   | —                | —                   |
| 2. Matched all job-ordered equipment serial numbers with closed-out and active job packets within the electronics/avionics maintenance facility. | —                | —                   |
| 3. Ensured that all required forms and records were in the job order packets.  | —                | —                   |
| 4. Verified that all forms and records within the job packets were properly completed.   | —                | —                   |
| 5. Ensured that all discrepancies had been corrected.  | —                | —                   |
| 6. Ensured that all forms and reports were distributed or filed in accordance with Department of Army Pamphlets and Army Regulations.            | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

**Required**

DA FORM 2402  
DA FORM 2404  
DA FORM 2405  
DA FORM 2407  
DA FORM 2407-1  
DA FORM 2408-12  
DA FORM 2408-13  
DA FORM 2408-13-1  
DA FORM 2410  
DA PAM 738-750  
DA PAM 738-751

**Related**

FM 4-30.3  
TM 38-L09-11

**References**

**Required**

DD FORM 1574  
DD FORM 1574-1  
DD FORM 1575  
DD FORM 1575-1  
DD FORM 1576  
DD FORM 1576-1  
DD FORM 1577  
DD FORM 1577-1  
DD FORM 1577-2  
DD FORM 1577-3

**Related**

**Review SAMS-1 Reports  
093-SSG-3021**

**Conditions:** Perform this task given SAMS-1 system installed, completed set of required SAMS-1 reports and forms, AIS Manual 25-L21-AHN-ZZZ-EM, DA Pam 738-750, DA Pam 738-751, and FM 4-30.3 (FM 9-43-1). This task can be performed in a field or garrison environment.

NOTE: This task may be performed in an NBC environment.

**Standards:** Reviewed all required SAMS-1 reports and forms and corrected discrepancies according to AIS Manual 25-L21-AHN-ZZZ-EM and DA Pam 738-750 or DA Pam 738-751. Filed all reports properly and forwarded copies, as required.

| <b>Performance Measures</b>   | <b><u>GO</u></b> | <b><u>NO GO</u></b> |
|---|------------------|---------------------|
| 1. Ensured that all required SAMS-1 reports and forms required for electronics/avionics maintenance operations were being used. | —                | —                   |
| 2. Reviewed new copies of all SAMS-1 reports and forms needed to run the electronics/avionics maintenance operations.           | —                | —                   |
| 3. Compared the previous SAMS-1 reports and forms with the newly printed reports and forms for discrepancies.                   | —                | —                   |
| 4. Reviewed the new SAMS-1 reports and forms for discrepancies.   | —                | —                   |
| 5. Ensured that all discrepancies were corrected.   | —                | —                   |
| 6. Ensured that all SAMS-1 reports and forms were distributed or filed in accordance with Army regulations.                     | —                | —                   |

**Evaluation Guidance:** Score the soldier GO if all performance measures are performed correctly. Score the soldier NO-GO if any performance measure was performed incorrectly. If the soldier fails any performance measure, show the soldier what was done wrong and how to perform it correctly.

**References**

| <b>Required</b>        | <b>Related</b> |
|------------------------|----------------|
| AISM 25-L21-AHN-ZZZ-EM |                |
| DA PAM 738-750         |                |
| DA PAM 738-751         |                |
| FM 4-30.3              |                |

**APPENDIX A****HANDS-ON EVALUATION (DA FORM 5164-R)  
INSTRUCTIONS**

DA Form 5164-R (Hands-On Evaluation) allows the trainer to keep a record of the performance measures a soldier passes or fails on each task.

**Before evaluation:**

1. Obtain a blank copy of DA Form 5164-R, which you may locally reproduce on 8 ½ x 11 paper.
2. Enter the task title and 10-digit number from the STP task summary.
3. In Column a, enter the performance measure numbers from the task summary.
4. In Column b, enter the performance measure corresponding to the number in Column a (you may abbreviate this information, if necessary).
5. Locally reproduce the partially completed form when evaluating more than one soldier on the task or when evaluating the same soldier more than once.

**During evaluation:**

1. Enter the date just before evaluating the soldier's task performance.
2. Enter the evaluator's name, the soldier's name, and the unit.
3. For each performance measure in Column b, enter a check in Column c (PASS) or Column d (FAIL), as appropriate.
4. Compare the number of performance measures the soldier passes (and, if applicable, which ones) against the task standards specified in the task summary. If the standards are met or exceeded, check the GO block under STATUS; otherwise, check the NO-GO block.

**This Page intentionally left blank.**

**APPENDIX B****FIELD EXPEDIENT SQUAD BOOK (DA FORM 5165-R)  
INSTRUCTIONS**

DA Form 5165-R (Field Expedient Squad Book) allows the trainer to keep a record of task proficiency for a group of soldiers.

**Before evaluation:**

1. Obtain a blank copy of DA Form 5165-R, which you may locally reproduce on 8 ½ x 11 paper.
2. Locally reproduce the partially completed form if you are evaluating more than nine soldiers.

**During evaluation:**

1. Enter the names of the soldiers you are evaluating, one name per column, at the top of the form.
2. Under STATUS, record (in pencil) the date in the GO block if the soldier demonstrated task proficiency to soldier's manual standards. Keep this information current by always recording the most recent date on which the soldier demonstrated task proficiency. Record the date in the NO-GO block if the soldier failed to demonstrate task proficiency to soldier's manual standards. Soldiers who failed to perform the task should be retrained and reevaluated until they can meet the standards. When the standards are met, enter the date in the appropriate GO block and erase the previous entry from the NO-GO block.

**After evaluation:**

1. Read down each column (GO/NO-GO) to determine the training status of an individual. This will give you a quick indication of which tasks a soldier needs training on.
2. Read across the rows for each task to determine the training status of all soldiers. You can readily see which tasks to focus training on.
3. Line through the STATUS column of any soldier who leaves the unit.

**This Page intentionally left blank.**



## GLOSSARY

### **Section I** **Acronyms & Abbreviations**

|                 |   |
|-----------------|---|
| <b>ACCP</b>     | Army Correspondence Course Program          |
| <b>AIPD</b>     | Army Institute for Professional Development |
| <b>AIT</b>      | advanced individual training                |
| <b>AMCOM</b>    | Aviation and Missile Command                |
| <b>AN</b>       | annually                                    |
| <b>ANCD</b>     | automated net control device                |
| <b>ANCOC</b>    | advanced noncommissioned officer course     |
| <b>AR</b>       | Army regulation                             |
| <b>ARTEP</b>    | Army Training and Evaluation Program        |
| <b>ATTN</b>     | attention                                   |
| <b>BA</b>       | biannually                                  |
| <b>BCT</b>      | basic combat training                       |
| <b>BIT</b>      | built-in test                               |
| <b>BNCOC</b>    | basic noncommissioned officer course        |
| <b>BW</b>       | biweekly                                    |
| <b>CBU</b>      | calibrate before use                        |
| <b>CCI</b>      | controlled cryptographic item               |
| <b>CNR</b>      | calibration not required                    |
| <b>COMSEC</b>   | communications security                     |
| <b>CTT</b>      | common task test                            |
| <b>DA</b>       | Department of the Army                      |
| <b>DA Form</b>  | Department of the Army form                 |
| <b>DA Label</b> | Department of the Army label                |
| <b>DA PAM</b>   | Department of the Army pamphlet             |
| <b>EIR</b>      | equipment improvement recommendation        |

|                  |   |
|------------------|---|
| <b>ELSEC</b>     | electronic security                         |
| <b>FEDLOG</b>    | Federal Logistics                           |
| <b>FM</b>        | frequency modulation; field manual          |
| <b>HF</b>        | high frequency                              |
| <b>HQ TRADOC</b> | Headquarters, Training and Doctrine Command |
| <b>ICS</b>       | intercommunications system                  |
| <b>IDN</b>       | initial distribution number                 |
| <b>IMPL</b>      | initial mandatory parts list                |
| <b>MDS</b>       | mission, design, and series                 |
| <b>METL</b>      | mission essential task list                 |
| <b>MO</b>        | monthly                                     |
| <b>MOS</b>       | military occupational specialty             |
| <b>MOSC</b>      | military occupational specialty code        |
| <b>MST</b>       | maintenance support team                    |
| <b>MWO</b>       | modification work order                     |
| <b>MX</b>        | mechanized                                  |
| <b>NBC</b>       | nuclear, biological, and chemical           |
| <b>NCO</b>       | noncommissioned officer                     |
| <b>NMP</b>       | national maintenance point                  |
| <b>NSN</b>       | national stock number                       |
| <b>PLL</b>       | prescribed load list                        |
| <b>PM</b>        | performance measure                         |
| <b>QDR</b>       | quality deficiency report                   |
| <b>QT</b>        | quarterly                                   |
| <b>R/T</b>       | receiver-transmitter                        |
| <b>RDL</b>       | Reimer Digital Library                      |
| <b>ROP</b>       | reorder point                               |
| <b>RT</b>        | receiver transmitter                        |

|               |  |
|---------------|--|
| <b>SA</b>     | semiannually   |
| <b>SAMS-1</b> | Standard Army Maintenance System-Level 1                         |
| <b>SF</b>     | standard form  |
| <b>SIGSEC</b> | signal security  |
| <b>SINAD</b>  | Signal-plus-noise-plus-distortion to noise-plus-distortion ratio |
| <b>SL</b>     | skill level  |
| <b>SLAC</b>   | support list allowance card                                      |
| <b>SM</b>     | soldier's manual   |
| <b>SMCT</b>   | soldier's manual of common tasks                                 |
| <b>SOP</b>    | standing operating procedure                                     |
| <b>SSA</b>    | supply support activity  |
| <b>STP</b>    | soldier training publication                                     |
| <b>STP</b>    | soldier training publication                                     |
| <b>TB</b>     | technical bulletin   |
| <b>TB MED</b> | technical bulletin (medical)                                     |
| <b>TC</b>     | training circular  |
| <b>TG</b>     | trainer's guide  |
| <b>TM</b>     | technical manual   |
| <b>TMDE</b>   | test, measurement, and diagnostic equipment                      |
| <b>UHF</b>    | ultra-high frequency   |
| <b>UND</b>    | urgency of need designator                                       |
| <b>UNIT</b>   | Trained in the unit  |
| <b>VA</b>     | Virginia   |
| <b>VHF</b>    | very high frequency  |
| <b>WK</b>     | weekly   |

## **Section II**

### **Terms**

#### **National Stock Number**

The 13-digit stock number replacing the 11-digit Federal Stock Number. It consists of the 4-digit Federal Supply Classification code and the 9-digit National Item Identification Number. The National Item Identification Number consists of a 2-digit National Codification Bureau number designating the central cataloging office (whether North Atlantic Treaty Organization or other friendly country) that assigned the number and a 7-digit (xxx-xxxx) nonsignificant number. The number shall be arranged as follows: 9999-00-999-9999. Also called NSN.

#### **Standard Army Maintenance System-Level 1**

Software package designed to manage maintenance operations, including work order registration, repair parts, stockage and requisition, manpower utilization, and readiness reporting.

#### **Signal-plus-noise-plus-distortion to noise-plus-distortion ratio**

The ratio of (a) total received power, that is, the received signal-plus-noise-plus-distortion power to (b) the received noise-plus-distortion power. The ratio of (a) the recovered audio power, that is, the original modulating audio signal plus noise plus distortion powers from a modulated radio frequency carrier to (b) the residual audio power, that is, noise-plus-distortion powers remaining after the original modulating audio signal is removed. Note: The SINAD is usually expressed in dB.

#### **Technical manual**

A publication that describes equipment, weapons, or weapons systems with instructions for effective use. It may include sections for instructions covering initial preparation for use and operational maintenance and overhaul.

## REFERENCES

### Required Publications

Required publications are sources that users must read in order to understand or to comply with this publication.

#### Army Regulations

|             |   |
|-------------|---|
| AR 190-13   | The Army Physical Security Program 30 September 1993  |
| AR 25-2     | Information Assurance 14 November 2003  |
| AR 25-400-2 | The Army Records Information Management System (ARIMS)<br>18 March 2003                                   |
| AR 380-40   | (O) Policy for Safeguarding and Controlling Communications Security<br>(COMSEC) Material (U) 30 June 2000 |
| AR 380-5    | Department of the Army Information Security Program 29 September<br>2000                                  |
| AR 385-10   | The Army Safety Program 29 February 2000  |
| AR 40-5     | Preventive Medicine 15 October 1990   |
| AR 672-20   | Incentive Awards 29 January 1999  |
| AR 710-2    | Inventory Management Supply Policy Below the National Level<br>25 February 2004                           |
| AR 725-50   | Requisition, Receipt, and Issue System 15 November 1995   |
| AR 750-1    | Army Materiel Maintenance Policy 18 August 2003   |
| AR 95-1     | Flight Regulations 1 September 1997   |

#### Department of Army Forms

|                   |   |
|-------------------|---|
| DA FORM 17        | Requisition for Publications and Blank Forms                      |
| DA FORM 17-1      | Requisition for Publications and Blank Forms (Continuation Sheet) |
| DA FORM 2028      | Recommended Changes to Publications and Blank Forms               |
| DA FORM 2062      | Hand Receipt/Annex Number   |
| DA FORM 2063-R    | Prescribed Load List  |
| DA FORM 2064      | Document Register for Supply Actions                              |
| DA FORM 2402      | Exchange Tag  |
| DA FORM 2404      | Equipment Inspection and Maintenance Worksheet                    |
| DA FORM 2405      | Maintenance Request Register                                      |
| DA FORM 2407      | Maintenance Request   |
| DA FORM 2407-1    | Maintenance Request Continuation Sheet                            |
| DA FORM 2408-12   | Army Aviator's Flight Record                                      |
| DA FORM 2408-13   | Aircraft Status Information Record                                |
| DA FORM 2408-13-1 | Aircraft Maintenance and Inspection Record                        |
| DA FORM 2408-14   | Uncorrected Fault Record  |
| DA FORM 2410      | Component Removal and Repair/Overhaul Record                      |
| DA FORM 3318      | Records of Demands-Title Insert                                   |
| DA FORM 3758-R    | Calibration and Repair Requirements Worksheet                     |
| DA FORM 5164-R    | Hands-On Evaluation   |
| DA FORM 5165-R    | Field Expedient Squad Book  |
| DA FORM 5988-E    | Equipment Inspection Maintenance Worksheet                        |
| DA FORM 5990-E    | Maintenance Request   |

**Department of Army Pamphlets**

|                |   |
|----------------|---|
| DA PAM 190-51  | Risk Analysis for Army Property 30 September 1993   |
| DA PAM 25-30   | Consolidated Index of Army Publications and Blank Forms 1 October 2004                              |
| DA PAM 25-33   | User's Guide for Army Publications and Forms 15 September 1996                                      |
| DA PAM 25-40   | Army Publishing: Action Officers Guide 29 December 2003   |
| DA PAM 350-59  | Army Correspondence Course Program Catalog 1 October 2002   |
| DA PAM 385-1   | Small Unit Safety Officer/NCO Guide 29 November 2001  |
| DA PAM 40-501  | Hearing Conservation Program 10 December 1998   |
| DA PAM 600-67  | Effective Writing for Army Leaders 2 June 1986  |
| DA PAM 611-21  | Military Occupational Classification and Structure 31 March 1999                                    |
| DA PAM 710-2-1 | Using Unit Supply System (Manual Procedures) 31 December 1997                                       |
| DA PAM 710-2-2 | Supply Support Activity Supply System: Manual Procedures<br>30 September 1998                       |
| DA PAM 738-750 | Functional Users Manual for The Army Maintenance Management System (TAMMS) 1 August 1994            |
| DA PAM 738-751 | Functional Users Manual for the Army Maintenance Management System-Aviation (TAMMS-A) 15 March 1999 |

**Field Manuals**

|            |   |
|------------|---|
| FM 101-5   | Staff Organization and Operations 31 May 1997   |
| FM 24-16   | Communications-Electronics Operations, Orders, Records, and Reports<br>7 April 1978             |
| FM 25-4    | How to Conduct Training Exercises 10 September 1984   |
| FM 25-5    | Training for Mobilization and War 25 January 1985   |
| FM 3-19.30 | Physical Security 8 January 2001  |
| FM 4-30.3  | Maintenance Operations and Procedures 28 July 2004  |
| FM 7-0     | Training The Force 22 October 2002  |
| FM 7-1     | Battle Focused Training 15 September 2003   |
| FM 9-43-2  | Recovery and Battlefield Damage Assessment and Repair FMFRP 4-34;<br>TO 36-1-181 3 October 1995 |

**Other Product Types**

|                        |   |
|------------------------|---|
| AISM 25-L21-AHN-ZZZ-EM | Standard Army Maintenance System Level 1(SAMS-1) End User Manual<br>1 June 1997 |
| DA LABEL 80            | US Army Calibrated Instrument   |
| DD FORM 1574           | Serviceable Tag - Materiel  |
| DD FORM 1574-1         | Serviceable Label - Materiel  |
| DD FORM 1575           | Suspended Tag - Materiel  |
| DD FORM 1575-1         | Suspended Label - Materiel  |
| DD FORM 1576           | Test/Modification Tag - Materiel  |
| DD FORM 1576-1         | Test/Modification Label - Materiel  |
| DD FORM 1577           | Unserviceable (Condemned) Tag - Materiel  |
| DD FORM 1577-1         | Unserviceable (Condemned) Label - Materiel                                      |
| DD FORM 1577-2         | Unserviceable (Reparable) Tag - Materiel  |
| DD FORM 1577-3         | Unserviceable (Reparable) Label - Materiel                                      |
| DD FORM 2332           | Product Quality Deficiency Report Exhibit                                       |
| DD FORM 314            | Preventive Maintenance Schedule and Record                                      |

FEDLOG S&I Cdr, USAMC Logistics Support (Issued Monthly)  
SF FORM 368 Product Quality Deficiency Report

### Technical Bulletins

TB 385-3 Fire Prevention and Protection: Military Gasoline Cans 7 June 1968  
TB 385-4 Safety Requirements for Maintenance of Electrical and Electronic Equipment 1 August 1992  
TB 43-0001-SERIES Equipment Improvement Report and Maintenance Digest for Tank, Automotive, Armament and Chemical Equipment 1 October 2000  
TB 43-180 Calibration and Repair Requirements for the Maintenance of Army Materiel 15 September 2002  
TB 750-25 Maintenance of Supplies and Equipment: Army Test, Measurement and Diagnostic Equipment (TMDE) Calibration and Repair Support (C&RS) Program 1 March 1997  
TB MED 523 Control of Hazards to Health From Microwave and Radio Frequency Radiation and Ultrasound 15 July 1980

### Technical Manuals

TM 11-4940-209-15 Operator, Organizational, Direct Support, General Support, and Depot Maintenance Manual: Electronic Shops, Semitrailer Mounted, AN/ASM-189 and AN/ASM-190 29 January 1968  
TM 11-4940-238-14-1 Operator's, Organizational, Direct Support and General Support Maintenance Manual for Electronic Shops, Shelter Mounted, Avionics AN/ASM-146B (NSN 4940-00-435-7764) and AN/ASM-146C (4940-01-110-9560), AN/ASM-147B (4940-00-435-7765) and AN/A 16 January 1978  
TM 11-5810-398-13&P Operator S Unit, and Direct Support Maintenance Manual (Including Repair Parts and Special Tools Lists) KY-100 Main Terminal Unit (NSN: 5810-01-376-1380) (EIC: RVH) and Z-AVH Remote Control Unit (NSN 5810-01-376-1381) (EIC: SJP) 1 August 1998  
TM 11-5820-1037-13&P Operator's, Unit, and Intermediate Maintenance Manual (Repair Parts and Special Tools List) for Radio Set AN/PRC-112 (NSN 5820-01-279-5450) (EIC: JBG) Program Loader KY-913/PRC-112 (NSN 7025-01-279-5308) (EIC: N/A) 15 May 1993  
TM 11-5820-1049-30 Aviation Intermediate Maintenance Manual for Radio Set AN/PRC-90-2 (NSN 5820-01-238-6603) 15 August 1990  
TM 11-5820-1141-30 Aviation Intermediate Manual for Radio Set AN/VRC-100(V)1 (NSN 5820-01-413-4235) (EIC: GC8) 15 July 2001  
TM 11-5821-311-34 Direct Support and General Support Maintenance Manual: Radio Receiver Transmitters RT-1167/ARC-164(V) (NSN 5821-00-138-7990) RT-1167C/ARC-164(V) (5821-01-147-4630) RT-1167F/ARC-164(V) (5821-01-206-9879) RT-1145F/ARC-164(V) (5821-01-210-3415) 15 September 1987  
TM 11-5821-318-30 Aviation Intermediate Maintenance Manual for VHF AM/FM Radio Set, AN/ARC-186(V) (NSN 5821-01-086-6243) 15 January 1986  
TM 11-5821-333-30 Aviation Intermediate Maintenance Manual for SINCGARS Airborne Combat New Radio, ICOM And Non-ICOM AN/ARC-201(V) (NSN: N/A) (EIC: N/A) and AN/ARC-201A(V) (NSN: N/A) (EIC: N/A)) 1 August 1992  
TM 11-5821-357-30 Aviation Intermediate Maintenance Manual Radio Set AN/ARC-220(V)1 (NSN 582-01-413-4233) (EIC:GC6) and AN/ARC(V)2 (NSN 5821-01-413-4232) (EIC:GC7) 1 January 2001  
TM 11-5895-1174-23 Aviation Unit and Intermediate Maintenance Manual for Control, Communications System C-6533/ARC 1 August 1991

|                   |  |
|-------------------|--|
| TM 11-6625-623-45 | General Support and Depot Maintenance Manual (Including Repair Parts and Special Tools Lists) for Maintenance Kit, Electronic Equipment MK-722/URC 7 June 1965             |
| TM 11-6625-928-35 | DDirect Support, General Support, and Depot Maintenance Manual for Test Facilities Kit, MK-994/AR (NSN 6625-00-802-7191) and MK-994A/AR (6625-01-189-7882) 9 December 1968 |
| TM 38-L09-11      | Functional Users Manual for Maintenance Reporting and Management (MRM) (S&I CDR, USALOGC, ATTN: ATCL-SP, FT LEE, VA 23801-6000) 4 February 1985                            |

### **Training Circulars**

|         |  |
|---------|--|
| TC 43-4 | Commander's and Shop Officer's Guide for Support Maintenance Management 8 May 1996 |
|---------|--|

### **Related Publications**

Related publications are sources of additional information. They are not required in order to understand this publication.

### **Army Regulations**

|            |   |
|------------|---|
| AR 200-1   | Environmental Protection and Enhancement 21 February 1997   |
| AR 25-11   | Record Communications and the Privacy Communications System 4 September 1990                        |
| AR 385-40  | Accident Reporting and Records 1 November 1994  |
| AR 5-12    | Army Management of the Electromagnetic Spectrum 1 October 1997                                      |
| AR 702-7   | Product Quality Deficiency Report Program [DLAR 4155.24; SECNAVINST 4855.5A; AFR 74.6] 20 July 1993 |
| AR 702-7-1 | Reporting of Product Quality Deficiencies Within the US Army 2 July 2001                            |

### **Department of Army Forms**

|                |  |
|----------------|--|
| DA FORM 2407   | Maintenance Request                    |
| DA FORM 2407-1 | Maintenance Request Continuation Sheet |

### **Department of Army Pamphlets**

|                 |   |
|-----------------|---|
| DA PAM 200-1    | Handbook for Environmental Impact Analysis (GPO SN: 0820-00551-7) 17 January 2002                   |
| DA PAM 25-380-2 | Security Procedures for Controlled Cryptographic Items 10 January 1991                              |
| DA PAM 738-750  | Functional Users Manual for The Army Maintenance Management System (TAMMS) 1 August 1994            |
| DA PAM 738-751  | Functional Users Manual for the Army Maintenance Management System-Aviation (TAMMS-A) 15 March 1999 |
| DA PAM 750-1    | Leader's Unit Level Maintenance Handbook 3 October 2003   |

### **Field Manuals**

|             |  |
|-------------|--|
| FM 24-33    | Communications Techniques: Electronic Counter-Countermeasures 17 July 1990 |
| FM 3-04.500 | Army Aviation Maintenance 26 September 2000                                |



FM 3-25.26 Map Reading and Land Navigation 20 July 2001  
FM 34-60 Counterintelligence 3 October 1995  
FM 4-30.3 Maintenance Operations and Procedures 28 July 2004  
FM 7-1 Battle Focused Training 15 September 2003

**Technical Bulletins**

TB 385-4 Safety Requirements for Maintenance of Electrical and Electronic Equipment 1 August 1992  
TB 43-0129 Safety Requirements for Use of Antenna and Mast Equipment 15 June 1986

**Technical Manuals**

TM 11-5820-800-13&P Operator's Aviation Unit and Intermediate Maintenance Manual (Including Repair Parts and Special Tools List) for Radio Set, AN/PRC-90 (NSN 5820-00-782-5308) 5 March 1985  
TM 38-L09-11 Functional Users Manual for Maintenance Reporting and Management (MRM) (S&I CDR, USALOGC, ATTN: ATCL-SP, FT LEE, VA 23801-6000) 4 February 1985  
TM 750-245-4 Direct Support and General Support for Quality Control Inspector's Inspection Criteria 25 January 1971

**Training Circulars**

TC 3-34.489 The Soldier and the Environment 8 May 2001


**This Page intentionally left blank.**

**STP 9-35L13-SM-TG**  
**28 JANUARY 2005**

**By Order of the Secretary of the Army:**

**PETER J. SCHOOMAKER**  
*General, United States Army*  
*Chief of Staff*

Official:



**SANDRA R. RILEY**  
*Administrative Assistant to the*  
*Secretary of the Army*  
0501311

**DISTRIBUTION:**

*Active Army, Army Reserve, and Army National Guard:* To be distributed in accordance with IDN 115931, requirements for STP 9-35L13-SM-TG.

**This Page intentionally left blank.**

