STP 9-94Y14-SM-TG

SOLDIER'S MANUAL AND TRAINER'S GUIDE

MOS 94Y
INTEGRATED FAMILY OF TEST EQUIPMENT (IFTE) OPERATOR/MAINTAINER
SKILL LEVELS 1, 2, 3, AND 4

MARCH 2009

HEADQUARTERS
DEPARTMENT OF THE ARMY

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Integrated Family of Test Equipment (IFTE) Operator/Maintainer Skill Levels 1, 2, 3 and 4

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PREFACE

This Soldier Training Publication (STP) is intended for Soldiers holding military occupational specialty (MOS) 94Y, Skill Levels (SLs) 1, 2, 3, and 4, 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 94Y should have access to this publication. Trainers and first-line supervisors should actively plan for a 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 Reimer Digital Library (RDL) at http://www.adtdl.army.mil/atdls.htm.

This publication applies to the Active Army, the Army National Guard (ARNG)/Army National Guard of the United States (ARNGUS), and the United States Army Reserve (USAR) unless otherwise stated.

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CHAPTER 1

Introduction

1-1. General. This Soldier Training Publication (STP) identifies individual military occupation specialty (MOS) training requirements for Soldiers holding MOS 94Y. 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 94Y Soldiers. Commanders employ two primary methods to evaluate a 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 (CTT). 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 skill level (SL). Commanders and trainers will use this Soldier's Manual/Trainer's Guide (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 for Full Spectrum Operations), 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 the 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. The 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 condition 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 steps. A performance step provides, in detail, what is required on how to perform the task.

- Performance measures. The performance measure 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 all references that are cited in the publication. References also provide more detailed explanations of task performance requirements than are given in the task summary. References are listed by type, identification number, title, and date.
- Glossary. The glossary is a comprehensive list of acronyms, abbreviations, and definitions used in the STP.
- 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 Mission Essential Task List (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 (FMs), technical manuals (TMs), and Army regulations (ARs). Soldiers are responsible for using these materials to maintain performance. They are also responsible for maintaining performance of all common tasks listed in the Soldiers Manual of Common Tasks (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 Army Correspondence Course Program (ACCP). For enrollment information in this program, visit on line through the Army Institute for Professional Development (AIPD) website at http://www.atsc.army.mil/accp/aipdnew.asp.

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 SL 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.

a. 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.

b. Every task summary in this STP includes performance measures, which 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.

c. 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 a sample DA Form 5164-R with instructions.

d. 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 SL. 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 SLs. Use of this form is optional. See Appendix B for a sample DA Form 5165-R with instructions. 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.

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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 which satisfies integration, cross training, training up, and sustainment training requirements for Soldiers in this MOS.

a. 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.

b. Section I list the 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.

c. 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 military occupational specialty code (MOSC) the Soldier will merge into on promotion.

d. 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 (AIT, BNCOC, and ANCOC), the resident course where the task was taught. Figure 2-1 contains a list of training locations and their corresponding brevity codes.

ANCOC	Advanced Noncommissioned Officer Course
AIT	Advanced Individual Training
BNCOC	Basic Noncommissioned Officer 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.

AN	- Annually
QT	- Quarterly
MO	- Monthly

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 Operate the AN/TSM-191 (V) and the AN/USM-632 (V)
2 Operate the Electronic Repair Shelter, OA-8991/TSM-191 (V)
3 Electro-Optics Test Facility (EOTF)

Skill Level 3

5 Maintenance Management I
6 Maintenance Management II

Skill Level 4

5 Maintenance Management I
6 Maintenance Management II

2-3. Duty Position Training Requirements.

94Y CAREER FIELD DUTY POSITIONS				
SKILL LEVEL	**DUTY POSITION**	**SUBJECT AREAS**	**CROSS-TRAIN**	**TRAIN-UP/MERGER**
1	IFTE Operator/ Maintainer	1 through 3	N/A	N/A
2	IFTE Operator/ Maintainer	1 through 3	N/A	IFTE Operator/Maintainer Supervisor Technical Inspector (TI)
3	IFTE Operator/ Maintainer Supervisor Technical Inspector (TI)	1 through 4	N/A	Senior Maintainer Supervisor Senior IFTE QA/QC TI
4	Senior Maintainer Supervisor Senior IFTE QA/QC TI	1 through 6	N/A	Platoon Sergeant

2-4. Critical Tasks List.

MOS TRAINING PLAN
94Y14

CRITICAL TASKS

Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
Skill Level 1				
Subject Area 1. Operate the AN/TSM-191 (V) and the AN/USM-632 (V)				
093-94Y-1000	Operate the Electronic Shop Transportable, AN/TSM-191 (V)	AIT	MO	1-4
093-94Y-1002	Operate the Electrical-Electronic Test Station, AN/USM-632 (V)	AIT	MO	1-4
093-94Y-1004	Perform Preventive Maintenance Checks and Services (PMCS) on the Electronic Shop Transportable, AN/TSM-191 (V)	AIT	MO	1-4
093-94Y-1006	Perform Preventive Maintenance Checks and Services (PMCS) on the Electrical-Electronic Test Station, AN/USM-632 (V)	AIT	MO	1-4
093-94Y-1012	Repair the Linear Power Supply	AIT	MO	1-4
093-94Y-1014	Repair the Gold Dot Interface Connection Device (ICD) Receiver	AIT	MO	1-4
093-94Y-1016	Repair Assemblies Located in the A3 Equipment Bay	AIT	MO	1-4
093-94Y-1018	Repair Assemblies Located in the A4 Equipment Bay	AIT	MO	1-4
093-94Y-1020	Repair Assemblies Located in the A5 Equipment Bay	AIT	MO	1-4
093-94Y-1022	Repair Assemblies Located in the A6 Equipment Bay	AIT	MO	1-4
093-94Y-1024	Perform Manual Troubleshooting Procedures on the Electrical-Electronic Test Station, AN/USM-632 (V)	AIT	MO	1-4
093-94Y-1026	Repair Integrated Family of Test Equipment (IFTE) Cables	AIT	MO	1-4
093-94Y-1028	Repair the Self Test Interface Connection Device (ICD)	AIT	MO	1-4
093-94Y-1030	Repair the Electronic Shop Transportable, AN/TSM -191 (V)	AIT	MO	1-4
093-94Y-1032	Repair Line Replaceable Units (LRU) Using the Electrical-Electronic Test Station, AN/USM-632 (V)	AIT	MO	1-4
093-94Y-1034	Prepare Maintenance Reports Using Administrative Services Menu	AIT	MO	1-4
093-94Y-1040	Prepare the Integrated Family of Test Equipment (IFTE) for Movement	AIT	MO	1-4
093-94Y-1042	Repair the Monitor	AIT	MO	1-4
093-94Y-1060	Repair Shop Replaceable Units (SRU's) Using the General Support Test Program Set	AIT	MO	1-4
093-94Y-1061	Perform General Support Maintenance on the Audio Output	AIT	MO	1-4
093-94Y-1062	Perform General Support Maintenance on the Virtual Instrument Chassis (VIC)	AIT	MO	1-4
093-94Y-1063	Maintain the Electrical-Electronic Test Station, AN/USM-632 (V)	AIT	MO	1-4

Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
Subject Area 2. Operate the Electronic Repair Shelter, OA-8991/TSM-191 (V)				
093-94Y-1068	Repair Multi-Layer Circuit Board to Industrial Standards	AIT	MO	1-4
093-94Y-1080	Repair Line Replaceable Units/Shop Replaceable Units Using the Electronic Repair Shelter (ERS), OA-8991/TSM-191 (V)	AIT	QT	1-4
093-94Y-1081	Operate the Electronic Repair Shelter (ERS), OA-8991/TSM-191 (V)	AIT	QT	1-4
093-94Y-1082	Perform Preventive Maintenance Checks and Services on the Electronic Repair Shelter (ERS), OA-8991/TSM-191 (V)	AIT	QT	1-4
093-94Y-1083	Repair the Electronic Repair Shelter (ERS), OA-8991/TSM-191 (V)	AIT	QT	1-4
Subject Area 3. Electro-Optics Test Facility (EOTF)				
093-94Y-1090	Repair the VXI Chassis Within the Electro-Optics Test Facility (EOTF)	AIT	MO	1-4
093-94Y-1091	Replace the Electro-Optic Module (EOM)	AIT	MO	1-4
093-94Y-1092	Install Electro-Optic Module (EOM) Software and Calibration Factors	AIT	MO	1-4
Skill Level 3				
Subject Area 5. Maintenance Management I				
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-3012	Perform In-Process Inspections	BNCOC	QT	3
Subject Area 6. Maintenance Management II				
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-3011	Write a Standing Operating Procedure (SOP)	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 Reports	BNCOC	QT	3

Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
Skill Level 4				
Subject Area 5. Maintenance Management I				
093-SFC-4113	Provide Liaison to Supported Units	ANCOC	AN	4
093-SFC-4108	Manage Shop Personnel Actions	ANCOC	AN	4
093-SFC-4109	Review SAMS-2 Reports	ANCOC	AN	4
093-SFC-4110	Conduct Site Reconnaissance	ANCOC	AN	4
093-SFC-4111	Coordinate Activities Between Production Control and Supply Support Activity	ANCOC	AN	4
093-SFC-4112	Manage Shop Supply Operations	ANCOC	AN	4
093-SFC-4114	Manage Operational Readiness Float (ORF) Transactions	ANCOC	AN	4
Subject Area 6. Maintenance Management II				
093-SFC-4102	Update Standing Operating Procedure (SOP)	ANCOC	AN	4
093-SFC-4101	Manage a Shop Security Program	ANCOC	AN	4
093-SFC-4103	Prepare Input to Materiel Condition Status Report	ANCOC	AN	4
093-SFC-4104	Manage SAMS-1 System Administration	ANCOC	AN	4
093-SFC-4105	Manage Hand Receipt Functions	ANCOC	AN	4
093-SFC-4106	Manage Maintenance Shop Operations	ANCOC	AN	4
093-SFC-4107	Manage Logistics Support	ANCOC	AN	4

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CHAPTER 3

MOS/Skill Level Tasks

Skill Level 1

Subject Area 1: Operate the AN/TSM-191 (V) and the AN/USM-632 (V)

Operate the Electronic Shop Transportable, AN/TSM-191 (V)
093-94Y-1000

Conditions: In a contemporary operational environment (COE), given an emplaced Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V), 60 KW generator set or commercial power source; TM 9-6115-651-14&P; TM 11-6625-3173-12-1; TM 11-6625-3178-14; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); FM 3-100.4; and TC 3-34.489.

Standards: Perform the "Assembly and Preparation for Use" procedures in accordance with TM 11-6625-3178-14 for the Electronic Shop Transportable, AN/TSM-191 (V) and observe all safety and environmental cautions.

Performance Steps
NOTE: This task covers AN/TSM-191(V)3 and the (V)5.

1. Follow all safety notes and special instructions.
2. Perform the Assembly and Preparation for Use under usual conditions.
    a. Install ladder.
    b. Install grounding rod.
    c. Connect primary power and install drain plug.
    d. Remove environmental control unit (ECU) drain plug.
    e. Open ECU cover.
3. Perform the Preliminary Turn-On procedures.
    a. At the power distribution panel, verify that the circuit breakers are set to OFF.
    b. At the ECU, verify the proper settings.
    c. At the system control module, verify that the ON/OFF switch is set to OFF.
    d. Start the generator set.
    e. Apply generator power to the shelter.
    f. At power distribution panel, verify that AC PWR FAULT and PHASE indicator are on, all other indicators are off.
4. Perform the Power Turn-On procedures.
    a. On the power distribution panel, set MAIN POWER circuit breaker to ON.
    b. On the power distribution panel, set LIGHTS circuit breaker to ON.
    c. On the power distribution panel, set the following circuit breaker to ON.
        (1) AIR CONDITIONER.
        (2) STATION POWER.
        (3) Modular Collective Protection Equipment (MCPE) (V3 only).
        (4) OUTLETS ROADSIDE.
        (5) OUTLETS CURBSIDE.
    d. On the thermal detector and alarm assembly, set the POWER switch to ON.
    e. Check that the display select switch is in the center position.
    f. Place the ALARM switch in the ALARM HI/LO position.
    g. On the ECU control module, set the controls in accordance with the ECU control settings chart.

Performance Steps

5. Perform the Power-Down procedures.
   a. On the ECU control module, set the CONTROL MODULE MODE SELECTOR switch to VENT/VENTILATE. Wait 5 minutes.
   b. Power-down (partial) the AN/USM-632 in accordance with TM 11-6625-3173-12-1 and TM 11-6625-3175-13.
   c. On ECU control module, set the CONTROL MODULE MODE SELECTOR switch to OFF.
   d. On the power distribution panel, set the following circuit breaker to OFF.
      (1) STATION POWER.
      (2) AIR CONDITIONER.
      (3) MCPE (V3 only).
      (4) OUTLETS ROADSIDE.
      (5) OUTLETS CURBSIDE.
      (6) LIGHTS.
      (7) MAIN POWER.
6. Power-down generator set (if required).
7. Complete and turn-in maintenance forms (if required).

Performance Measures	**GO**	**NO-GO**
NOTE: This task covers version AN/TSM-191(V)3 and AN/TSM-191(V)5		
1. Followed all safety notes and special instructions.	____	____
2. Performed the Assembly and Preparation for Use under usual conditions.	____	____
3. Performed the Preliminary Turn-On procedures.	____	____
4. Performed the Power Turn-On procedures.	____	____
5. Performed the Power-Down procedures.	____	____
6. Powered-down generator set (if required).	____	____
7. Completed and turned-in maintenance forms (if required).	____	____

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	**Related**
DA FORM 2404	TM 11-6625-366-15
FM 3-100.4	TM 11-6625-3173-30-1
TC 3-34.489	
TM 9-6115-651-14&P	
TM 11-6625-3173-12-1	
TM 11-6625-3178-14	

Operate the Electrical-Electronic Test Station, AN/USM-632 (V)

093-94Y-1002

Conditions: In a contemporary operational environment (COE), given an emplaced Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V); 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 9-6115-651-14&P; TM 11-6625-3173-12-1; TM 11-6625-3173-12-2; TM 11-6625-3178-14; FM 3-100.4; and TC 3-34.489.

Standards: Perform "Power-Up Procedures" in accordance with TM 11-6625-3173-12-1 for the Electrical-Electronic Equipment Test Station and observe all safety and environmental cautions.

Performance Steps

NOTE: Performance of this task assumes that the AN/USM-632(V)2 or (V)4 test station has been re-emplaced, shipped, or removed from storage.

1. Perform assembly and preparation for use procedures.
    a. Perform initial setup.
    b. Perform Site Requirements, Assembly and Preparation For Use, Preliminary Turn-On and the Power Turn-On portion of the Operating Instructions in Chapter 2 in TM 11-6625-3178-14 and TM 11-6625-3175-13.
    c. At the cathode ray tube (CRT) display, perform the following steps:
        (1) Remove CRT transit support. (V2 only)
        (2) Release CRT track support.
    d. At the Gold Dot Interface Connection Device (ICD) receiver, perform the following steps:
        (1) Open dust cover.
        (2) Lower actuation lever.
        (3) Remove Gold Dot ICD receiver shipping fixture or transit block.
        (4) Close and latch dust cover.
        (5) Raise actuation lever.

2. Perform initial settings procedures.
    a. At the Power Distribution Panel, verify the control and indicator conditions in accordance with TM 11-6625-3178-14 and TM 11-6625-3175-13.
    b. Perform the BEFORE (B) operation checks.
    c. At the A1 bay, set the +28V SUPPLY toggle switch to ON (up) and the +/- 15V SUPPLY (if available) toggle switch to ON (up).
    d. At the A3 bay, set all the POWER ON/OFF switches to ON (up).
    e. At the CRT display, set the PUSH ON/OFF pushbutton to ON (in).
    f. At the Gold Dot ICD receiver, set the Lever in the Stowed (up) position and the Dust Cover in the Closed (up) and latched position.
    g. At the A4 bay, set all the PWR ON/OFF toggle switches to ON (up).
    h. At the Tone Generator, set the ON/OFF AUDIO DEFEAT toggle switch to ON (up).
    i. At the A5 bay, set all the LINE I/O push-pull power switches to ON (out).
    j. At the A6 bay, set all the POWER ON pushbutton switches to ON (in).

Performance Steps

3. Perform power-up procedures.
    a. Complete the Assembly and Preparation for Use procedures.

NOTE: Performance of this task assumes that the AN/USM-632(V)2 or (V)4 test station has been re-emplaced, shipped, or removed from storage.

(1) Perform assembly and preparation for use procedures.
    (a) Perform initial setup.
    (b) Perform Site Requirements, Assembly and Preparation For Use, Preliminary Turn-On and the Power Turn-On portion of the Operating Instructions in Chapter 2 in TM 11-6625-3178-14 and TM 11-6625-3175-13.
    (c) At the CRT display, perform the following steps: Remove CRT transit support. (V2 only) and release CRT track support.
    (d) At Gold Dot ICD receiver, perform the following steps: Open dust cover, Lower actuation lever, Remove Gold Dot ICD receiver shipping fixture or transit block, Close and latch dust cover, Raise actuation lever.

(2) Perform initial settings procedures.
    (a) At the Power Distribution Panel, verify the control and indicator conditions in accordance with TM 11-6625-3178-14 and TM 11-6625-3175-13.
    (b) Perform the BEFORE (B) operation checks.
    (c) At the A1 bay, set the +28V SUPPLY toggle switch to ON (up) and the +/- 15V SUPPLY (if available) toggle switch to ON (up).
    (d) At the A3 bay, set all the POWER ON/OFF switches to ON (up).
    (e) At the CRT display, set the PUSH ON/OFF pushbutton to ON (in).
    (f) At the Gold Dot ICD receiver, set the Lever in the Stowed (up) position and the Dust Cover in the Closed (up) and latched position.
    (g) At the A4 bay, set all the PWR ON/OFF toggle switches to ON (up).
    (h) At the Tone Generator, set the ON/OFF AUDIO DEFEAT toggle switch to ON (up).
    (i) At the A5 bay, set all the LINE I/O push-pull power switches to ON (out).
    (j) At the A6 bay, set all the POWER ON pushbutton switches to ON (in).

(3) Perform power-up procedures.
    (a) Complete the Assembly and Preparation for Use procedures.
    (b) Complete the Initial Settings procedures.
    (c) At the power control unit (PCU), set controls and verify indicator conditions.
    (d) At the CRT, verify correct messages are displayed.

(4) Perform indicator checks.
    (a) Wait about 8 minutes until system is ready for operation.
    (b) Verify indicator conditions in accordance with paragraph 2-31 b.

(5) Perform logon procedures in accordance with paragraph 2-32.

(6) Perform self-test operation as required in accordance with paragraph 2-33.

(7) Check error messages and re-run self-test as required.

(8) Perform full power down as outlined in paragraph 2-40.

(9) Complete and turn-in required maintenance forms as required.

    b. Complete the Initial Settings procedures.
    c. At the PCU, set controls and verify indicator conditions.
    d. At the CRT, verify correct messages are displayed.

4. Perform indicator checks.
    a. Wait about 8 minutes until system is ready for operation.
    b. Verify indicator conditions in accordance with paragraph 2-31 b.

5. Perform logon procedures in accordance with paragraph 2-32.

6. Perform self-test operation as required in accordance with paragraph 2-33.

Performance Steps

7. Check error messages and re-run self-test as required.
8. Perform full power down as outlined in paragraph 2-40.
9. Complete and turn-in required maintenance forms as required.

Performance Measures	**GO**	**NO-GO**
NOTE: Performance of this task assumes that the AN/USM-632(*) test station has been re-emplaced, shipped or removed from storage.		
1. Performed assembly and preparation for use procedures.	____	____
2. Performed initial settings procedures.	____	____
3. Performed power-up procedures.	____	____
4. Performed indicator checks.	____	____
5. Performed logon procedures in accordance with paragraph 2-32.	____	____
6. Performed self-test operation as required in accordance with paragraph 2-33.	____	____
7. Checked error messages and re-ran self-test as required.	____	____
8. Performed full power down as outlined in paragraph 2-40.	____	____
9. Completed and turned-in required maintenance forms as required.	____	____

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	**Related**
DA FORM 2404	DA PAM 750-8
FM 3-100.4	
TC 3-34.489	
TM 9-6115-651-14&P	
TM 11-6625-3173-12-1	
TM 11-6625-3173-12-2	
TM 11-6625-3178-14	

Perform Preventive Maintenance Checks and Services (PMCS) on the Electronic Shop Transportable, AN/TSM-191 (V)

093-94Y-1004

Conditions: In a contemporary operational environment (COE), given an emplaced Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V), 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); FM 3-100.4; TB 43-0124; TC 3-34.489; TM 3-4240-325-20&P; TM 9-4120-370-14; TM 9-6115-651-14&P; TM 11-6625-3173-12-1; and TM 11-6625-3178-14.

Standards: Perform the required regular interval PMCS on the Electronic Shop Transportable, AN/TSM-191 (V) and observe all environmental and safety warnings and cautions.

Performance Steps

1. Follow all safety notes and special instructions.
2. Identify which type of PMCS interval and level is required.
    a. Operator - Before interval.
    b. Operator - During interval.
    c. Operator - Weekly interval.
    d. Operator - Monthly interval.
    e. Unit - Weekly interval.
    f. Unit - Monthly interval.
3. Perform operator before (B) PMCS in accordance with TM 11-6625-3178-14, paragraph 2-13.
    a. Environmental Control Unit (ECU).
        (1) Check that Fabric Cover is rolled up and secure for normal operation.
        (2) Check that A/C Rear Panel Cover is open and secure for normal operation.
    b. Station Power and Ground.
        (1) Check Power Cable.
        (2) Check Ground Strap.
4. Perform operator during (D) PMCS in accordance with TM 11-6625-3178-14, paragraph 2-13.
    a. ECU.
        (1) After 15 minutes of operation in maximum cooling, check Refrigerant Sight Glass for bubbles or milky flow.
        (2) Check Refrigerant Sight Glass for yellow color.
    b. Operational Checks.
        (1) Check Thermal Detector and Alarm Assembly.
        (2) Lighting.
            (a) Check Fluorescent and Cold Start lights for burnt bulbs.
            (b) Check Blackout lights for burnt bulbs.
            (c) Check for proper operation of Blackout lighting.
5. Perform operator monthly (M) PMCS in accordance with TM 11-6625-3178-14, paragraph 2-13.
    a. On ECU, roll down cover and check for condition of snaps, mildew, tears or worn edges.
    b. On Personnel Vents within the shelter, check for free movement of vent.
6. Perform unit level weekly (W) PMCS on the shelter in accordance with TM 11-6625-3178-14, paragraph 4-7.

Performance Steps

7. Perform unit level monthly (M) PMCS in accordance with TM 11-6625-3178-14, paragraph 4-7.
   a. Power Distribution Assembly.
   b. Test Land Line Circuits.
   c. Modular Collective Protection Equipment (MCPE).
   d. ECU Horizontal (applies to AN/TSM-191(V)3) or ECU Vertical (applies to AN/TSM-191(V)2 and AN/TSM-191(V)4).
8. Perform unit troubleshooting procedures in accordance with TM 11-6625-3178-14, Section III.
9. Perform power down procedures in accordance with TM 11-6625-3178-14, paragraph 2-19.
   a. (Applies to AN/TSM-191(V)2 and AN/TSM-191(V)4). On ECU control module, set selector switch to VENTILATE. Wait 5 minutes.
   b. (Applies to AN/TSM-191(V)3). On ECU control module, set Control Module Mode Selector switch to VENT. Wait 5 minutes.
   c. Perform a partial power-down of the AN/USM-632(*) in accordance with TM 11-6625-3173-12-1.
   d. (Applies to AN/TSM-191(V)2 and AN/TSM-191(V)4). On ECU control module, set selector switch to OFF.
   e. (Applies to AN/TSM-191(V)3). On ECU control module, set Control Module Mode Selector switch to OFF.
   f. On the power distribution panel, set all circuit breakers to OFF and verify that each indicator light goes out. (After MAIN POWER circuit breaker is turned off, the AC PWR FAULT indicator should illuminate.)
10. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
1. Followed all safety notes and special instructions.	____	____
2. Identified which type of PMCS interval and level was required.	____	____
3. Performed operator before (B) PMCS in accordance with TM 11-6625-3178-14, paragraph 2-13.	____	____
4. Performed operator during (D) PMCS in accordance with TM 11-6625-3178-14, paragraph 2-13.	____	____
5. Performed operator monthly (M) PMCS in accordance with TM 11-6625-3178-14, paragraph 2-13.	____	____
6. Performed unit level weekly (W) PMCS on the shelter in accordance with TM 11-6625-3178-14, paragraph 4-7.	____	____
7. Performed unit level monthly (M) PMCS in accordance with TM 11-6625-3178-14, paragraph 4-7.	____	____
8. Performed unit troubleshooting procedures in accordance with TM 11-6625-3178-14, Section III.	____	____
9. Performed power down procedures in accordance with TM 11-6625-3178-14, paragraph 2-19.	____	____
10. Completed and turned-in required maintenance forms.	____	____

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 2404
FM 3-100.4
TB 43-0124
TC 3-34.489
TM 3-4240-325-20&P
TM 9-4120-370-14
TM 9-6115-651-14&P
TM 11-6625-3173-12-1
TM 11-6625-3178-14

Related
DA PAM 750-8
LO 9-2320-272-12

Perform Preventive Maintenance Checks and Services (PMCS) on the Electrical-Electronic Test Station, AN/USM-632 (V)

093-94Y-1006

Conditions: In a contemporary operational environment (COE), given an emplaced Electronic Shop Transportable, AN/TSM-191 (V) with individual task number 093-94Y-1004 already performed; Electrical-Electronic Equipment Test Station, AN/USM-632 (V); 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); FM 3-100.4; TC 3-34.489; TM 9-6115-651-14&P; TM 11-6625-3178-14; TM 11-6625-3173-12-1; and TM 11-6625-3173-12-2.

Standards: Perform the required regular interval PMCS on the Electrical-Electronic Equipment Test Station, AN/USM-632 (V) and observe all environmental and safety warnings, cautions, and notes. Annotate all deficiencies found on DA Form 2404 and update the test station's administration services menu with information pertinent to the status of the test set equipment. Ensure any accidents are noted and a supervisor is informed so that immediate corrective action can be taken.

Performance Steps

1. Follow all safety notes and special instructions.
2. Identify which level and interval of PMCS is required.
3. Perform operator before (B) PMCS in accordance with TM 11-6625-3173-12-1, paragraph 2-27.
    a. Inspect test station for dents, damage, wear/serviceability, and loose or broken parts.
    b. Inspect external cables, connector accessories, and cable sets for serviceability.
        (1) Follow all safety notes and special instructions.
        (2) Identify which level and interval of PMCS is required.
        (3) Perform operator before PMCS in accordance with TM 11-6625-3173-12-1, paragraph 2-27.
            (a) Inspect test station for dents, damage, wear/serviceability, and loose or broken parts.
            (b) Inspect external cables, connector accessories, and cable sets for serviceability.
            (c) Inspect Gold Dot Interface Connection Device (ICD) receiver for proper operation, wear, and damage.
        (4) Perform power up procedures.
        (5) Perform operator during (D) PMCS in accordance with TM 11-6625-3173-12-1, paragraph 2-27.
            (a) Inspect printer for paper and hardcopy output quality.
            (b) Run end-to-end self-test in confidence mode on test station.
            (c) Verify operation of fan assemblies in A5 and A6 bays. Replace as required.
        (6) Perform operator weekly (W) PMCS in accordance with TM 11-6625-3173-12-1, paragraph 2-27.
            (a) Clean cathode ray tube (CRT) display screen.
            (b) Clean face of inkjet cartridge.
            (c) Run end-to-end self-test in fault detection mode on test station.
            (d) Clean all equipment.
        (7) Perform operator monthly (M) PMCS in accordance with TM 11-6625-3173-12-1, paragraph 2-27.
            (a) On the printer, inspect level of ink in the cartridge. Replace cartridge as required.
            (b) Run end-to-end self-alignment on test station.
        (8) Perform unit annual (A) PMCS.
            (a) Check cables for serviceability.
            (b) Send Rubidium Standard to calibration facility.
            (c) Send Power Meter to calibration facility.
            (d) Send Power Sensor (external) to calibration facility.
            (e) Send Power Sensor (internal) to calibration facility.
            (f) Send Self Alignment ICD to calibration facility.

Performance Steps

(9) Perform test station full power down procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-40.
(10) Complete and turn-in required maintenance forms.

c. Inspect Gold Dot ICD receiver for proper operation, wear and damage.

4. Perform power up procedures.

5. Perform operator during (D) PMCS in accordance with TM 11-6625-3173-12-1, paragraph 2-27.
   a. Inspect printer for paper and hardcopy output quality.
   b. Run end-to-end self-test in confidence mode on test station.
   c. Verify operation of fan assemblies in A5 and A6 bays. Replace as required.

6. Perform operator weekly (W) PMCS in accordance with TM 11-6625-3173-12-1, paragraph 2-27.
   a. Clean CRT display screen.
   b. Clean face of inkjet cartridge.
   c. Run end-to-end self-test in fault detection mode on test station.
   d. Clean all equipment.

7. Perform operator monthly (M) PMCS in accordance with TM 11-6625-3173-12-1, paragraph 2-27.
   a. On the printer, inspect level of ink in the cartridge. Replace cartridge as required.
   b. Run end-to-end self-alignment on test station.

8. Perform unit annual (A) PMCS.
   a. Check cables for serviceability.
   b. Send Rubidium Standard to calibration facility.
   c. Send Power Meter to calibration facility.
   d. Send Power Sensor (external) to calibration facility.
   e. Send Power Sensor (internal) to calibration facility.
   f. Send Self Alignment ICD to calibration facility.

9. Perform test station full power down procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-40.

10. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
1. Followed all safety notes and special instructions.	____	____
2. Identified which level and interval of PMCS was required.	____	____
3. Performed operator before (B) PMCS in accordance with TM 11-6625-3173-12-1, paragraph 2-27.	____	____
4. Performed power up procedures.	____	____
5. Performed operator during (D) PMCS in accordance with TM 11-6625-3173-12-1, paragraph 2-27.	____	____
6. Performed operator weekly (W) PMCS in accordance with TM 11-6625-3173-12-1, paragraph 2-27.	____	____
7. Performed operator monthly (M) PMCS in accordance with TM 11-6625-3173-12-1, paragraph 2-27.	____	____

Performance Measures	GO	NO-GO
8. Performed unit annual (A) PMCS.	____	____
9. Performed test station full power down procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-40.	____	____
10. Completed and turned-in required maintenance forms.	____	____

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	Related
DA FORM 2404	DA PAM 750-8
FM 3-100.4	LO 9-2320-272-12
TC 3-34.489	TB 43-0124
TM 9-6115-651-14&P	TM 9-4120-370-14
TM 11-6625-3173-12-1	
TM 11-6625-3173-12-2	
TM 11-6625-3178-14	

Repair the Linear Power Supply
093-94Y-1012

Conditions: In a contemporary operational environment (COE), given an emplaced and powered up Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V) with a faulty linear power supply; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3178-14; TM 11-6625-3173-12-1; and TM 11-6625-3173-12-2.

Standards: Perform the repair procedures on the linear power supply in accordance with TM 11-6625-3173-12-1 and TM 11-6625-3173-12-2. Faults, if any, are annotated, computerized adjustments are conducted, and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Perform test station partial power down procedure in accordance with TM 11-6625-3173-12-1, paragraph 3-22.
   a. Halt the test station.
   b. Power down the test station.
3. Check fuses in the linear power supply in accordance with TM 11-6625-3173-12-1, paragraph 3-20.
   a. Extend linear power supply.
   b. Unscrew caps and remove fuses.
   c. Perform a continuity check on the fuses.
   d. Replace faulty fuse(s).
   e. Reinstall fuses and caps.
   f. Reinstall linear power supply.
4. Power-up test station in accordance with TM 11-6625-3173-12-1, paragraph 2-30. Check to see if the failure is still present.
5. If failure is still present, run individual self-test in fault isolation mode in accordance with TM 11-6625-3173-12-1, paragraph 2-33.
6. If failure is still present, replace linear power supply in accordance with TM 11-6625-3173-12-1, paragraph 3-24.
   a. Replace power supply(ies).
   b. Perform test station power up procedure.
   c. Verify repair by performing individual self-test of the linear power supplies and, if necessary, perform the power supply adjustment procedure.
7. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
NOTE: Individual task number 093-94Y-1002 has been performed.		
1. Followed all safety notes and special instructions.	____	____
2. Performed test station partial power down procedure in accordance with TM 11-6625-3173-12-1, paragraph 3-22.	____	____
3. Checked fuses in the linear power supply in accordance with TM 11-6625-3173-12-1, paragraph 3-20.	____	____
4. Powered-up test station in accordance with TM 11-6625-3173-12-1, paragraph 2-30. Checked to see if the failure was still present.	____	____
5. If failure was still present, ran individual self-test in fault isolation mode in accordance with TM 11-6625-3173-12-1, paragraph 2-33.	____	____
6. If failure was still present, replaced linear power supply in accordance with TM 11-6625-3173-12-1, paragraph 3-24.	____	____
7. Completed and turned-in required maintenance forms.	____	____

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	**Related**
DA FORM 2404	DA PAM 750-8
TM 11-6625-3173-12-1	TM 9-6115-651-14&P
TM 11-6625-3173-12-2	TM 11-6625-3173-30-1
TM 11-6625-3178-14	TM 11-6625-3173-30-2

Repair the Gold Dot Interface Connection Device (ICD) Receiver

093-94Y-1014

Conditions: In a contemporary operational environment (COE), given an emplaced and powered up Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V) with a faulty Gold Dot ICD receiver; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3178-14; TM 11-6625-3173-12-1; TM 11-6625-3173-12-2; TM 11-6625-3173-30-1; and TM 11-6625-3266-24&P.

Standards: Perform the repair procedures on the Gold Dot ICD receiver in accordance with TM 11-6625-3173-12-1 and TM 11-6625-3173-12-2. Faults, if any, are annotated, computerized adjustments are conducted, and repairs are made based on repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Perform a visual inspection of the Gold Dot ICD receiver.
   a. Check cables, connectors, and jacks for serviceability.
   b. Check Gold Dot ICD receiver activation lever for proper operation.
   c. Inspect upper and lower Gold Dot pads for wear, damage, and foreign objects.
   d. Remove any foreign objects.
3. Perform self-test operation of the ICD receiver in accordance with TM 11-6625-3173-12-1, paragraph 2-33(9).
   a. Install the Self-Test ICD receiver in the Gold Dot ICD receiver slot.
   b. Follow the Operator Action screens on the monitor.
4. Perform test station partial power down procedures in accordance with TM 11-6625-3173-12-1, paragraph 3-22.
5. Repair any faults with the Gold Dot ICD receiver.
   a. Repair any damaged cables.
   b. Replace any damaged Gold Dot pads in accordance with TM 11-6625-3173-12-1, paragraph 3-29.
6. Perform test station power up procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-30.
7. Run self-test to verify fault is corrected in accordance with TM 11-6625-3173-12-1, paragraph 2-33(9).
8. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
NOTE: Individual task number 093-94Y-1002 has been performed.		
1. Followed all safety notes and special instructions.	____	____
2. Performed a visual inspection of the Gold Dot ICD receiver.	____	____
3. Performed self-test operation of the ICD receiver in accordance with TM 11-6625-3173-12-1, paragraph 2-33(9).	____	____
4. Performed test station partial power down procedures in accordance with TM 11-6625-3173-12-1, paragraph 3-22.	____	____
5. Repaired any faults with the Gold Dot ICD receiver.	____	____
6. Performed test station power up procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-30.	____	____
7. Ran self-test to verify fault is corrected in accordance with TM 11-6625-3173-12-1, paragraph 2-33(9).	____	____
8. Completed and turned-in required maintenance forms.	____	____

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	**Related**
DA FORM 2404	DA PAM 750-8
TM 11-6625-3173-12-1	TM 9-6115-651-14&P
TM 11-6625-3173-12-2	TM 11-6625-3173-30-2
TM 11-6625-3173-30-1	TM 11-6625-3199-14
TM 11-6625-3178-14	
TM 11-6625-3266-24&P	

Repair Assemblies Located in the A3 Equipment Bay

093-94Y-1016

Conditions: In a contemporary operational environment (COE), given an emplaced and powered up Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V) with a faulty assembly within the A3 equipment bay; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3178-14; TM 11-6625-3173-12-1; TM 11-6625-3173-30-1; and TM 11-6625-3173-30-2.

Standards: Perform the repair procedures on a faulty assembly located within the A3 equipment bay in accordance with TM 11-6625-3173-12-1, TM 11-6625-3173-30-1, and TM 11-6625-3173-30-2. Faults, if any, are annotated, computerized adjustments are conducted, and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Perform troubleshooting procedures on assemblies located in the A3 equipment bay by using self-test operation procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-33 to determine faulty component(s).
3. Repair the virtual instrument chassis (VIC) power supply, make voltage adjustments, and verify repair.
   a. Repair VIC power supply in accordance with TM 11-6625-3173-30-2, Chapter 3.
   b. Verify VIC power supply repair by running self-test in accordance with TM 11-6625-3173-12-1, paragraph 2-33.
4. Repair the +/-5VDC power supply and verify repair.
   a. Check fuse.
   b. Adjust power supply.
   c. Run self-test to verify repair.
   d. Remove power supply.
   e. Install power supply.
   f. Verify +/- 5VDC power supply repair by running self-test in accordance with TM 11-6625-3173-12-1, paragraph 2-33.
5. Replace the analog VIC circuit card(s) and verify repair.
   a. Shutdown the analog VIC.
   b. Wait for "shutdown successfully completed" screen to be displayed.
   c. Remove analog VIC card(s).
   d. Install analog VIC card(s).
   e. Verify analog VIC circuit card(s) repair by running self-test in accordance with TM 11-6625-3173-12-1, paragraph 2-33.
6. Replace the analog VIC drawer fan and fan assembly.
   a. Replace VIC drawer fan tray assembly.
   b. Replace VIC drawer fan.
7. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
NOTE: Individual task number 093-94Y-1002 has been performed.		
1. Followed all safety notes and special instructions.	____	____
2. Performed troubleshooting procedures on assemblies located in the A3 equipment bay by using self-test operation procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-33 to determine faulty component(s).	____	____
3. Repaired the virtual instrument chassis (VIC) power supply, made voltage adjustments, and verified repair.	____	____
4. Repaired the +/-5VDC power supply and verified repair.	____	____
5. Replaced the analog VIC circuit card(s) and verified repair.	____	____
6. Replaced the analog VIC drawer fan and fan assembly.	____	____
7. Completed and turned-in required maintenance forms.	____	____

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	**Related**
DA FORM 2404	DA PAM 750-8
TM 11-6625-3173-12-1	TM 9-6115-651-14&P
TM 11-6625-3173-30-1	TM 11-6625-3173-12-2
TM 11-6625-3173-30-2	
TM 11-6625-3178-14	

Repair Assemblies Located in the A4 Equipment Bay

093-94Y-1018

Conditions: In a contemporary operational environment (COE), given an emplaced and powered up Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V) with a faulty assembly within the A4 equipment bay; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3178-14; TM 11-6625-3173-12-1; TM 11-6625-3173-12-2; TM 11-6625-3173-30-1; and TM 11-6625-3173-30-2.

Standards: Perform the repair procedures on a faulty assembly located within the A4 equipment bay in accordance with TM 11-6625-3173-12-1, TM 11-6625-3173-12-2, TM 11-6625-3173-30-1, and TM 11-6625-3173-30-2. Faults, if any, are annotated, computerized adjustments are conducted, and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Perform troubleshooting procedures on assemblies located in the A4 equipment bay by using self-test operation procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-33 to determine faulty component(s).
3. Replace PS 1 Programmable Direct Current (DC) Power Supply.
   a. Cycle the PWR ON/OFF toggle switch.
   b. Perform test station partial power down.
   c. Remove power supply.
   d. Install power supply.
   e. Verify repair.
4. Replace PS 1 Programmable DC Controller Module.
   a. Remove controller module.
   b. Install controller module.
   c. Verify repair.
5. Replace PS 1 Programmable DC Power Supply Modules 1 through 8.
   a. Remove power supply module(s).
   b. Install power supply module(s).
   c. Verify repair(s).
6. Replace PS 1 Programmable DC Chassis.
   a. Remove chassis.
   b. Install chassis.
   c. Verify repair.
7. Replace Digital VIC Card(s) A1 through A18.
   a. Shutdown the Digital VIC.
   b. Wait for "shutdown successfully completed" screen to be displayed.
   c. Remove Digital VIC card(s).
   d. Install Digital VIC card(s).
   e. Verify repair(s).

Performance Steps

8. Replace Digital VIC Regulator Card(s) A19 through A20.
    a. Halt the test station.
    b. Wait until ">" prompt is displayed.
    c. Turn off power to Analog VIC circuit cards.
    d. Turn off power to Digital VIC circuit cards.
    e. Set peripheral interface controller (PIC) power to OFF.
    f. Remove Digital VIC Regulator Card(s).
    g. Install Digital VIC Regulator Card(s).
    h. Verify repair(s).
9. Replace Digital VIC Regulator Assembly(ies) A19 and A20.
    a. Halt the test station.
    b. Wait until ">" prompt is displayed.
    c. Turn off power to Analog VIC circuit cards.
    d. Turn off power to Digital VIC circuit cards.
    e. Set PIC power to OFF.
    f. Remove door.
    g. Remove panel screws.
    h. Slide Digital VIC out to locked position.
    i. Remove Regulator Assembly A20.
    j. Remove Regulator Assembly A19.
    k. Install Regulator Assembly A20.
    l. Install Regulator Assembly A19.
    m. Slide Digital VIC in.
    n. Install panel screws.
    o. Install door.
    p. Turn on power to Analog VIC circuit cards.
    q. Turn on power to Digital VIC circuit cards.
    r. Set PIC power to ON.
    s. Verify repair(s).
10. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
NOTE: Individual task number 093-94Y-1002 has been performed.		
1. Followed all safety notes and special instructions.	____	____
2. Performed troubleshooting procedures on assemblies located in the A4 equipment bay by using self-test operation procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-33 to determine faulty component(s).	____	____
3. Replaced PS 1 Programmable Direct Current (DC) Power Supply.	____	____
4. Replaced PS 1 Programmable DC Controller Module.	____	____
5. Replaced PS 1 Programmable DC Power Supply Modules 1 through 8.	____	____
6. Replaced PS 1 Programmable DC Chassis.	____	____
7. Replaced Digital VIC Card(s) A1 through A18.	____	____
8. Replaced Digital VIC Regulator Card(s) A19 through A20.	____	____
9. Replaced Digital VIC Regulator Assembly(ies) A19 and A20.	____	____
10. Completed and turned-in required maintenance forms.	____	____

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	**Related**
DA FORM 2404	DA PAM 750-8
TM 11-6625-3173-12-1	TM 9-6115-651-14&P
TM 11-6625-3173-12-2	
TM 11-6625-3173-30-1	
TM 11-6625-3173-30-2	
TM 11-6625-3178-14	

Repair Assemblies Located in the A5 Equipment Bay

093-94Y-1020

Conditions: In a contemporary operational environment (COE), given an emplaced and powered up Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V) with a faulty assembly within the A5 equipment bay; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3178-14; TM 11-6625-3173-12-1; TM 11-6625-3173-12-2; TM 11-6625-3173-30-1; and TM 11-6625-3173-30-2.

Standards: Perform the repair procedures on a faulty assembly located within the A5 equipment bay in accordance with TM 11-6625-3173-12-1, TM 11-6625-3173-12-2, TM 11-6625-3173-30-1, and TM 11-6625-3173-30-2. Faults, if any, are annotated, computerized adjustments are conducted, and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Perform troubleshooting procedures on assemblies located in the A4 equipment bay by using self-test operation procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-33 to determine faulty component(s).
3. Repair Tone Generator Lamp.
    a. Move carrier away from bay A5 to gain access to the Tone Generator.
    b. Replace alarm and power lamps.
    c. Move carrier back to normal operating position.
    d. Verify repair.
4. Repair Tone Generator.
    a. Move carrier away from bay A5 to gain access to the Tone Generator.
    b. Remove the Tone Generator.
    c. Install the Tone Generator.
    d. Move carrier back to normal operating position.
    e. Verify repair.
5. Repair Fan Assembly.
    a. Remove Fan Assembly.
    b. Install Fan Assembly.
    c. Verify repair.
6. Repair Spectrum Analyzer.
    a. Cycle the LINE power switch.
    b. Perform test station partial power down.
    c. Remove Spectrum Analyzer.
    d. Install Spectrum Analyzer.
    e. Verify repair.
7. Repair Radio Frequency (RF) Generator 3.
    a. Cycle the POWER ON/OFF push button switch.
    b. Perform test station partial power down.
    c. Remove RF Generator 3.
    d. Install RF Generator 3.
    e. Verify repair.

Performance Steps

8. Repair Radio Frequency Interface Unit (RFIU).
    a. Cycle the POWER ON/OFF toggle switch.
    b. Perform test station partial power down.
    c. Extend RFIU out of A5 bay.
    d. Remove RFIU.
    e. Install RFIU.
    f. Install Internal Power Sensor calibration (CAL) factors.
    g. Slide RFIU into A5 bay.
    h. Verify repair.

9. Repair Internal Power Sensor.
    a. Remove Internal Power Sensor.
    b. Install Internal Power Sensor
    c. Verify repair.

10. Repair External Power Sensor.
    a. Verify the cable and the power sensor is properly installed on the correct connector.
    b. Remove RFIU power sensor (external) from storage.
    c. Replace external power sensor.
    d. Install CAL factors.
    e. Verify repair.

11. Repair RF Generator 2.
    a. Cycle the POWER push button switch.
    b. Perform test station partial power down.
    c. Remove RF Generator 2.
    d. Install RF Generator 2.
    e. Verify repair.

12. Repair RF Generator 1.
    a. Cycle the POWER push button switch.
    b. Perform test station partial power down.
    c. Remove RF Generator 1.
    d. Install RF Generator 1.
    e. Verify repair.

13. Repair RF Millivoltmeter.
    a. Cycle the LINE OFF/ON rocker switch.
    b. Perform test station partial power down.
    c. Remove RF Millivoltmeter.
    d. Install RF Millivoltmeter.
    e. Verify repair.

14. Repair Power Meter.
    a. Cycle the LINE ON/OFF push button switch.
    b. Perform test station partial power down.
    c. Remove Power Meter.
    d. Install Power Meter.
    e. Verify repair.

Performance Steps

15. Repair Programmable Direct Current (DC) Power Supply (PS) 2.
    a. Open door on front of equipment bay A5.
    b. Cycle the PWR ON/OFF toggle switch.
    c. Remove Programmable DC PS 2.
    d. Install Programmable DC PS 2.
    e. Close door on front of equipment bay A5.
    f. Verify repair.

16. Repair Programmable DC PS 2 Controller Module.
    a. Open door on front of equipment bay A5.
    b. Cycle the PWR ON/OFF toggle switch.
    c. Remove Programmable DC PS 2 Controller Module.
    d. Install Programmable DC PS 2 Controller Module.
    e. Close door on front of equipment bay A5.
    f. Verify repair.

17. Repair Programmable DC PS 2 Power Supply Module(s) 1 through 4.
    a. Open door on front of equipment bay A5.
    b. Cycle the PWR ON/OFF toggle switch.
    c. Remove Programmable DC PS 2 Power Supply Module(s).
    d. Install Programmable DC PS 2 Power Supply Module(s).
    e. Close door on front of equipment bay A5.
    f. Verify repair.

18. Repair Programmable DC PS 2 Chassis.
    a. Open door on front of equipment bay A5.
    b. Remove Programmable DC PS 2 Chassis.
    c. Install Programmable DC PS 2 Chassis.
    d. Close door on front of equipment bay A5.
    e. Verify repair.

19. Repair Programmable Loads.
    a. Open door on front of equipment bay A5.
    b. Remove Programmable Loads.
    c. Install Programmable Loads.
    d. Close door on front of equipment bay A5.
    e. Verify repair.

20. Repair Blower.
    a. Open door on front of equipment bay A5.
    b. Remove Blower.
    c. Install Blower.
    d. Close door on front of equipment bay A5.
    e. Verify repair.

21. Adjust Rubidium Standard.
    a. Open door on front of equipment bay A5.
    b. Extend Rubidium Standard drawer.
    c. Adjust Rubidium Standard.
    d. Install Rubidium Standard.
    e. Close door on front of equipment bay A5.
    f. Verify adjustment.

Performance Steps

22. Repair Rubidium Standard.
    a. Open door on front of equipment bay A5.
    b. Remove Rubidium Standard.
    c. Install Rubidium Standard.
    d. Close door on front of equipment bay A5.
    e. Verify repair.

23. Repair Blower/Rubidium Standard Terminal Board TB1.
    a. Open door on front of equipment bay A5.
    b. Remove Blower/Rubidium Standard Terminal Board TB1.
    c. Install Blower/Rubidium Standard Terminal Board TB1.
    d. Close door on front of equipment bay A5.
    e. Verify repair.

24. Complete and turn-in required maintenance forms.

Performance Measures NOTE: Individual task number 093-94Y-1002 has been performed.	**GO**	**NO-GO**
1. Followed all safety notes and special instructions.	____	____
2. Performed troubleshooting procedures on assemblies located in the A4 equipment bay by using self-test operation procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-33 to determine faulty component(s).	____	____
3. Repaired Tone Generator Lamp.	____	____
4. Repaired Tone Generator.	____	____
5. Repaired Fan Assembly.	____	____
6. Repaired Spectrum Analyzer.	____	____
7. Repaired Radio Frequency (RF) Generator 3.	____	____
8. Repaired Radio Frequency Interface Unit (RFIU).	____	____
9. Repaired Internal Power Sensor.	____	____
10. Repaired External Power Sensor.	____	____
11. Repaired RF Generator 2.	____	____
12. Repaired RF Generator 1.	____	____
13. Repaired RF Millivoltmeter.	____	____
14. Repaired Power Meter.	____	____
15. Repaired Programmable Direct Current (DC) Power Supply (PS) 2.	____	____
16. Repaired Programmable DC PS 2 Controller Module.	____	____
17. Repaired Programmable DC PS 2 Power Supply Module(s) 1 through 4.	____	____
18. Repaired Programmable DC PS 2 Chassis.	____	____
19. Repaired Programmable Loads.	____	____

Performance Measures	GO	NO-GO
20. Repaired Blower.	____	____
21. Adjusted Rubidium Standard.	____	____
22. Repaired Rubidium Standard.	____	____
23. Repaired Blower/Rubidium Standard Terminal Board TB1.	____	____
24. Completed and turned-in required maintenance forms.	____	____

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	Related
DA FORM 2404	DA PAM 750-8
TM 11-6625-3173-12-1	TM 9-6115-651-14&P
TM 11-6625-3173-12-2	TM 11-6625-3178-24P
TM 11-6625-3173-30-1	
TM 11-6625-3173-30-2	
TM 11-6625-3178-14	

Repair Assemblies Located in the A6 Equipment Bay

093-94Y-1022

Conditions: In a contemporary operational environment (COE), given an emplaced and powered up Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V) with a faulty assembly within the A6 equipment bay; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3178-14; TM 11-6625-3173-12-1; TM 11-6625-3173-12-2; TM 11-6625-3173-30-1; and TM 11-6625-3173-30-2.

Standards: Perform the repair procedures on a faulty assembly located within the A6 equipment bay in accordance with TM 11-6625-3173-12-1, TM 11-6625-3173-12-2, TM 11-6625-3173-30-1, and TM 11-6625-3173-30-2. Faults, if any, are annotated, computerized adjustments are conducted, and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Perform troubleshooting procedures on assemblies located in the A6 equipment bay by using self-test operation procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-33 to determine faulty component(s).
3. Repair Fan Assembly.
   a. Remove Fan Assembly.
   b. Install Fan Assembly.
   c. Verify repair.
4. Repair power control unit (PCU).
   a. Remove PCU.
   b. Install PCU.
   c. Verify repair.
5. Install Operating System Software in accordance with TM 11-6625-3173-12-1, paragraph 3-60.
6. Install Self-Test and Self-Alignment Software in accordance with TM 11-6625-3173-12-1, paragraph 3-61.
7. Repair Optical Disc Drive (if installed).
   a. Remove Optical Disc Drive.
   b. Install Optical Disc Drive.
   c. Verify repair.
8. Repair Peripheral Interface Controller (PIC) Assembly.
   a. Replace PIC in accordance with TM 11-6625-3173-12-1, paragraph 3-63.
   b. Replace Microprocessor Card A1 in accordance with TM 11-6625-3173-12-1, paragraph 3-64.
   c. Replace VME/IEEE Card XA5 in accordance with TM 11-6625-3173-12-1, paragraph 3-65.
   d. Replace SCSI Card XA6 in accordance with TM 11-6625-3173-12-1, paragraph 3-66.
   e. Adjust PS1 through PS3 in accordance with TM 11-6625-3173-12-1, paragraph 3-67.
   f. Replace PS1 through PS3 in accordance with TM 11-6625-3173-12-1, paragraph 3-68.
   g. Replace Lamp Cartridge DS1 in accordance with TM 11-6625-3173-12-1, paragraph 3-69.
   h. Replace Blower B1 in accordance with TM 11-6625-3173-12-1, paragraph 3-70.
9. Repair Printer Assembly.
   a. Replace Paper in accordance with TM 11-6625-3173-12-1, paragraph 3-71.
   b. Replace Cartridge in accordance with TM 11-6625-3173-12-1, paragraph 3-72.
   c. Replace Printer in accordance with TM 11-6625-3173-12-1, paragraph 3-73.
   d. Replace AC Adapter in accordance with TM 11-6625-3173-12-1, paragraph 3-74.

Performance Steps

10. Repair Winchester Disc Drive (if installed).
    a. Remove Winchester Disc Drive.
    b. Install Winchester Disc Drive.
    c. Verify repair.
11. Repair AC Power Supply.
    a. Open door on front of equipment bay A6.
    b. Cycle the POWER ON/OFF toggle switch.
    c. Remove AC Power Supply.
    d. Install AC Power Supply.
    e. Verify repair.
12. Repair Blower.
    a. Open door on front of equipment bay A6.
    b. Remove AC Power Supply.
    c. Remove Blower.
    d. Install Blower.
    e. Install AC Power Supply.
    f. Perform test station power-up.
    g. Close door on front of equipment bay A6.
13. Complete and turn-in required maintenance forms.

Performance Measures NOTE: Individual task number 093-94Y-1002 has been performed.	**GO**	**NO-GO**
1. Followed all safety notes and special instructions.	____	____
2. Performed troubleshooting procedures on assemblies located in the A6 equipment bay by using self-test operation procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-33 to determine faulty component(s).	____	____
3. Repaired Fan Assembly.	____	____
4. Repaired Power Control Unit (PCU).	____	____
5. Installed Operating System Software in accordance with TM 11-6625-3173-12-1, paragraph 3-60.	____	____
6. Installed Self-Test and Self-Alignment Software in accordance with TM 11-6625-3173-12-1, paragraph 3-61.	____	____
7. Repaired Optical Disc Drive (if installed).	____	____
8. Repaired Peripheral Interface Controller (PIC) Assembly.	____	____
9. Repaired Printer Assembly.	____	____
10. Repaired Winchester Disc Drive (if installed).	____	____
11. Repaired AC Power Supply.	____	____
12. Repaired Blower.	____	____
13. Completed and turned-in required maintenance forms.	____	____

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	**Related**
DA FORM 2404	DA PAM 750-8
TM 11-6625-3173-12-1	TM 5-6115-545-12
TM 11-6625-3173-12-2	TM 9-6115-651-14&P
TM 11-6625-3173-30-1	
TM 11-6625-3173-30-2	
TM 11-6625-3178-14	

Perform Manual Troubleshooting Procedures on the Electrical-Electronic Test Station, AN/USM-632 (V)

093-94Y-1024

Conditions: In a contemporary operational environment (COE), given an emplaced and powered up Electronic Shop Transportable, AN/TSM-191 (V); with a faulty Electrical-Electronic Equipment Test Station, AN/USM-632 (V); 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3178-14; TM 11-6625-3173-12-1; TM 11-6625-3173-12-2; TM 11-6625-3173-30-1; and TM 11-6625-3173-30-2.

Standards: Perform manual troubleshooting procedures on the faulty Electrical-Electronic Equipment Test Station, AN/USM-632 (V) in accordance with TM 11-6625-3173-12-1, Chapter 3. Faults are annotated and necessary adjustments and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Perform manual troubleshooting procedures.
   a. Isolate and identify the fault.
   b. Repair/replace the faulty component(s).
   c. Verify the repair.
3. Run system self-test to verify test station operability.
4. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
1. Followed all safety notes and special instructions.	____	____
2. Performed manual troubleshooting procedures.	____	____
3. Ran system self-test to verify test station operability.	____	____
4. Completed and turned-in required maintenance forms.	____	____

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	**Related**
DA FORM 2404	DA PAM 750-8
TM 11-6625-3173-12-1	TM 9-6115-651-14&P
TM 11-6625-3173-12-2	
TM 11-6625-3173-30-1	
TM 11-6625-3173-30-2	
TM 11-6625-3178-14	

Repair Integrated Family of Test Equipment (IFTE) Cables

093-94Y-1026

Conditions: In a contemporary operational environment (COE), given an emplaced and powered up Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V) with an internal power problem; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3178-14; TM 11-6625-3173-12-1; TM 11-6625-3173-30-1; and TM 11-6625-3173-30-2.

Standards: Perform support maintenance troubleshooting procedures on system cables in accordance with TM 11-6625-3173-30-1, Chapter 2 and TM 11-6625-3173-30-2. Faults are annotated and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Perform troubleshooting procedures.
3. Isolate/identify the faulty cable(s).
    a. System cables.
        (1) Typical cables.
        (2) Ribbon cables.
        (3) Coaxial cables.
    b. Drawer Cables and Wiring.
    c. Terminators.
4. Perform the required repair procedure.
    a. Typical cables.
    b. Ribbon cables.
    c. Coaxial cables.
    d. Terminators.
5. Run system self-test to verify repair.
6. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
1. Followed all safety notes and special instructions.	____	____
2. Performed troubleshooting procedures.	____	____
3. Isolated/identified the faulty cable(s).	____	____
4. Performed the required repair procedure.	____	____
5. Ran system self-test to verify repair.	____	____
6. Completed and turned-in required maintenance forms.	____	____

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 2404
TM 11-6625-3173-12-1
TM 11-6625-3173-30-1
TM 11-6625-3173-30-2
TM 11-6625-3178-14

Related

DA PAM 750-8
TM 1-1500-323-24-1
TM 11-6625-3173-12-2

Repair the Self Test Interface Connection Device (ICD)

093-94Y-1028

Conditions: In a contemporary operational environment (COE), given an emplaced and powered up Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V) with a faulty ICD; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3173-12-1; TM 11-6625-3173-30-1; and TM 11-6625-3266-24&P.

Standards: Perform troubleshooting and repair procedures on the faulty self test ICD as directed by the test program set (TPS) and in accordance with TM 11-6625-3266-24&P, Chapter 3. Faults are annotated and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Perform troubleshooting procedures in accordance with TPS.
   a. Isolate and identify the fault.
   b. Remove/replace the faulty component(s).
3. Perform troubleshooting procedures in accordance with TM.
   a. Isolate and identify the fault.
   b. Remove/replace the faulty component(s).
4. Run system test station self-test program to verify repair.
5. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
1. Followed all safety notes and special instructions.	____	____
2. Performed troubleshooting procedures in accordance with TPS.	____	____
3. Performed troubleshooting procedures in accordance with TM.	____	____
4. Ran system test station self-test program to verify repair.	____	____
5. Completed and turned-in required maintenance forms.	____	____

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	**Related**
DA FORM 2404	DA PAM 750-8
TM 11-6625-3173-12-1	TM 9-6115-651-14&P
TM 11-6625-3173-30-1	TM 11-6625-3173-12-2
TM 11-6625-3266-24&P	TM 11-6625-3178-14

Repair the Electronic Shop Transportable, AN/TSM -191 (V)

093-94Y-1030

Conditions: In a contemporary operational environment (COE), given an emplaced but defective Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V); 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); and TM 11-6625-3178-14.

Standards: Perform troubleshooting and repair procedures on the defective Electronic Shop Transportable, AN/TSM-191 (V) in accordance with TM 11-6625-3178-14. Faults are annotated and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Review the operator completed DA Form 2404.
2. Perform manual troubleshooting/testing of components procedures.

NOTE: Perform the General Safety Instructions prior to repairs.

   a. Isolate and identify the fault.
   b. Repair/replace the faulty component(s).
   c. Verify the repair.

3. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
NOTE: Read and followed all WARNINGs, CAUTIONs, and NOTEs given within TM 11-6625-3178-14.		
1. Reviewed the operator completed DA Form 2404.	____	____
2. Performed manual troubleshooting/testing of components procedures.	____	____
3. Completed and turned-in required maintenance forms.	____	____

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	**Related**
DA FORM 2404	DA PAM 750-8
TM 11-6625-3178-14	TM 9-6115-651-14&P
	TM 11-6625-3173-12-1
	TM 11-6625-3178-24P

Repair Line Replaceable Units (LRUs) Using the Electrical-Electronic Test Station, AN/USM-632 (V)

093-94Y-1032

Conditions: In a contemporary operational environment (COE), given an emplaced Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V) in standby condition; 60 KW generator set or commercial power source; faulty LRU; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); appropriate technical manual to support the LRU(s) under test; appropriate test program set (TPS); TM 9-6115-651-14&P; TM 11-6625-3173-12-1; TM 11-6625-3173-12-2; TM 11-6625-3173-30-1; and TM 11-6625-3178-14.

Standards: Perform repair procedures on the LRU utilizing the appropriate TPS and appropriate technical manual (TM) to support the LRU(s) under test. Faults, if any, are annotated, computerized adjustments are conducted and repairs made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Review DA Form 2404 for annotated faults.

NOTE: Perform a visual inspection of the connectors, jacks, cables, and test points on the LRU assembly for damage.

3. Perform the test program operation procedures for the LRU under test.
4. Isolate the faulty component.
5. Repair the LRU.
6. Retest the unit under test (UUT) to verify repair.
7. Perform test station full power down procedure.
8. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
NOTE: Individual task number 093-94Y-1002 has been performed.		
1. Followed all safety notes and special instructions.	____	____
2. Reviewed DA Form 2404 for annotated faults.	____	____
3. Performed the test program operation procedures for the LRU under test.	____	____
4. Isolated the faulty component.	____	____
5. Repaired the LRU.	____	____
6. Retested the unit under test (UUT) to verify repair.	____	____
7. Performed test station full power down procedure.	____	____
8. Completed and turned-in required maintenance forms.	____	____

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 2404
TM 9-6115-651-14&P
TM 11-6625-3173-12-1
TM 11-6625-3173-12-2
TM 11-6625-3173-30-1
TM 11-6625-3178-14

Related

DA PAM 750-8
TM 9-1425-649-40
TM 9-4935-649-34

Prepare Maintenance Reports Using Administrative Services Menu

093-94Y-1034

Conditions: In a contemporary operational environment (COE), given an emplaced Electronic Shop Transportable, AN/TSM-191 (V); powered up Electrical-Electronic Equipment Test Station, AN/USM-632 (V); 60 KW generator set or commercial power source; TM 11-6625-3173-12-1; and TM 11-6625-3178-14.

Standards: Access the test station Administrative Services Menu, select a printed copy of the desired report, and make the necessary administrative function selections required for the desired report in accordance with TM 11-6625-3173-12-1.

Performance Steps

1. Follow all safety notes and special instructions.
2. Select Administrative Services from the Base Shop Test Station (BSTS) main menu.
3. Select the desired report from the Administrative Software screen.
   a. Operations Report/Pass Down Log.
   b. Tester Maintenance Report.
   c. Unit Under Test (UUT) Malfunction Report.
   d. Interactive Report.
   e. Complete Report.
   f. Station Maintenance Report.
   g. UUT Report.
4. Select hard copy output.
5. Type in the required data for desired report.
   a. Cathode ray tube (CRT) display on screen keyboard.
   b. Keyboard.
6. Review printed report.

Performance Measures	**GO**	**NO-GO**
NOTE: Individual task number 093-94Y-1002 has been performed.		
1. Followed all safety notes and special instructions.	____	____
2. Selected Administrative Services from the Base Shop Test Station (BSTS) main menu.	____	____
3. Selected the desired report from the Administrative Software screen.	____	____
4. Selected hard copy output.	____	____
5. Typed in the required data for desired report.	____	____
6. Reviewed printed report.	____	____

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	Related
TM 11-6625-3173-12-1	TM 9-6115-651-14&P
TM 11-6625-3178-14	TM 11-6625-3173-12-2
	TM 11-6625-3173-30-1

Prepare the Integrated Family of Test Equipment (IFTE) for Movement

093-94Y-1040

Conditions: In a contemporary operational environment (COE), given TM 9-6115-651-14&P; TM 11-6625-3173-12-1; TM 11-6625-3178-14; FM 3-100.4; TB 43-0124; TC 3-34.489; and DA Form 2404 (Equipment Inspection and Maintenance Worksheet). Prepare an emplaced Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V); and 60 KW generator set for movement.

Standards: Prepare an emplaced Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V); and 60 KW generator set for movement in accordance with TB 43-0124, TM 9-6115-651-14&P, TM 11-6625-3173-12-1, and TM 11-6625-3178-14. Observe all of the safety warnings and all state, installation, and unit environmental cautions.

Performance Steps

1. Follow all safety notes and special instructions.
2. Prepare Base Shop Test Station (BSTS) for movement procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-41.
   a. Perform test station partial power down.
   b. Stow keyboard.
   c. Secure monitor carrier next to bay A5 and install cathode ray tube (CRT) transit support.
   d. Remove Interface Connection Device (ICD) from the Gold Dot receiver, install cover, and store ICD's in designated location.
      (1) Self-test ICD.
      (2) Self-alignment ICD.
      (3) Test program set (TPS) ICD.
   e. Remove any discs from the disc drive.
      (1) CD-ROM.
      (2) Floppy disk.
   f. Remove line replaceable units (LRU(s)) and shop replaceable units (SRU(s)) from the test station.
   g. Store all probes, cables, adapters, and technical manuals in test station storage bag and drawers.
   h. Install the Gold Dot ICD receiver shipping fixture.
3. Perform preparation for movement procedures in accordance with TM 11-6625-3178-14, paragraph 2-21.
   a. Secure loose items.
   b. Power down shelter.
   c. Install environmental control unit (ECU) drain plug.
   d. Apply ECU cover.
   e. Remove primary power connection and drain plug removal.
   f. Ground rod removal.
   g. Remove ladder.
   h. Check Shelter Sling.

Performance Measures	GO	NO-GO
1. Followed all safety notes and special instructions.	____	____
2. Prepared Base Shop Test Station (BSTS) for movement procedures in accordance with TM 11-6625-3173-12-1, paragraph 2-41.	____	____
3. Performed preparation for movement procedures in accordance with TM 11-6625-3178-14, paragraph 2-21.	____	____

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	Related
DA FORM 2404	DA PAM 750-8
FM 3-100.4	FM 55-30
TB 43-0124	
TC 3-34.489	
TM 9-6115-651-14&P	
TM 11-6625-3173-12-1	
TM 11-6625-3178-14	

Repair the Monitor

093-94Y-1042

Conditions: In a contemporary operational environment (COE), given an emplaced Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V) with a faulty monitor; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 9-6115-651-14&P; TM 11-6625-3178-14; TM 11-6625-3173-12-1; TM 11-6625-3173-12-2; and TM 11-6625-3173-30-1.

Standards: Perform repair procedures on the faulty monitor in accordance with TM 11-6625-3173-12-1 and TM 11-6625-3173-12-2. Monitor faults are annotated on a completed DA Form 2404.

Performance Steps

1. Follow all safety notes and special instructions.
2. Perform a visual inspection for damage and proper connection.
3. Perform unit level troubleshooting procedures.
    a. Determine monitor malfunction by following the monitor inoperative flow diagram (as required).
        (1) Adjust intensity (if required).
        (2) Perform Control System Reset (if required).

NOTE: Always follow the technical manual person's required statement when replacing any heavy piece of equipment.

        (3) Replace monitor. (If required, locate an assist to help replace the monitor.)
    b. Rerun the system self-test to verify the test station is operational.
    c. Perform test station full power down procedures in accordance with TM 11-6625-3173-12-1.
    d. Refer Electrical-Electronic Equipment Test Station to Direct Support Maintenance (if required),
4. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
1. Followed all safety notes and special instructions.	____	____
2. Performed a visual inspection for damage and proper connection.	____	____
3. Performed unit level troubleshooting procedures.	____	____
4. Completed and turned-in required maintenance forms.	____	____

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	**Related**
DA FORM 2404	DA PAM 750-8
TM 9-6115-651-14&P	TM 11-6625-3173-24P
TM 11-6625-3173-12-1	TM 11-6625-3173-30-2
TM 11-6625-3173-12-2	
TM 11-6625-3173-30-1	
TM 11-6625-3178-14	

Repair Shop Replaceable Units (SRUs) Using the General Support Test Program Set (TPS)
093-94Y-1060

Conditions: In a contemporary operational environment (COE), given an emplaced Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V); TPS, TS-4449/USM; 60 KW generator set or commercial power source; faulty SRUs; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 9-6115-651-14&P; TM 9-6625-901-24; TM 11-6625-3173-12-1; TM 11-6625-3173-12-2; TM 11-6625-3173-30-1; and TM 11-6625-3178-14.

Standards: Perform the repair procedures on the SRUs using TPS, TS-4449 in accordance with TM 9-6625-901-24, TM 11-6625-3173-12-1, and TM 11-6625-3173-12-2. Faults are annotated, computerized adjustments are conducted, and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Perform TPS software operation procedures.
   a. Review the TPS data sheet before running the TPS.
   b. Verify the proper operation of the test station and the TPS equipment used for testing a unit under test (UUT) by running "Run All Tests" procedures for the first time since powering up the test station (as required).
3. Perform UUT procedures.
   a. Follow troubleshooting procedures in accordance with instruction displayed on the test station monitor (as required).
   b. Repair faulty test station or other supported system UUT assembly (as required).

NOTE: Always follow the technical manual (TM) person's required statement when replacing any heavy piece of equipment.

   c. Perform test station self-test program to verify test station repairs, only if identified as a displayed fault listed above (as required).
4. Perform test station full power down procedures.
5. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
1. Followed all safety notes and special instructions.	____	____
2. Performed TPS software operation procedures.	____	____
3. Performed UUT procedures.	____	____
4. Performed test station full power down procedures.	____	____
5. Completed and turned-in required maintenance forms.	____	____

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 2404
TM 9-6115-651-14&P
TM 9-6625-901-24
TM 11-6625-3173-12-1
TM 11-6625-3173-12-2
TM 11-6625-3173-30-1
TM 11-6625-3178-14

Related

DA PAM 750-8

Perform General Support Maintenance on the Audio Output

093-94Y-1061

Conditions: In a contemporary operational environment (COE), given an emplaced and powered up Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V) with a faulty audio output assembly; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3173-12-1; TM 11-6625-3173-30-1; and TM 9-6625-3173-40-1.

Standards: Perform troubleshooting and repair procedures on the faulty audio output assembly within the test station using the self-test menu procedures in accordance with TM 11-6625-3173-12-1. Faults are annotated and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Review DA Form 2404.
3. Use self-test procedures to determine if the audio output produces an alarm tone.
4. Perform audio output troubleshooting procedures.
5. Use schematic diagram to verify failure.
6. Perform audio output inspection procedures before performing maintenance operations.
7. Replace faulty component.
8. Perform audio output inspection procedures after performing maintenance operations.
9. Verify operational capability.
10. Run system self-test to verify repair.
11. Perform test station full power down procedures.
12. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
1. Followed all safety notes and special instructions.	____	____
2. Reviewed DA Form 2404.	____	____
3. Used self-test procedures to determine if the audio output produced an alarm tone.	____	____
4. Performed audio output troubleshooting procedures.	____	____
5. Used schematic diagram to verify failure.	____	____
6. Performed audio output inspection procedures before performing maintenance operations.	____	____
7. Replaced faulty component.	____	____
8. Performed audio output inspection procedures after performing maintenance operations.	____	____
9. Verified operational capability.	____	____

Performance Measures	GO	NO-GO
10. Ran system self-test to verify repair.	____	____
11. Performed test station full power down procedures.	____	____
12. Completed and turned-in required maintenance forms.	____	____

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	Related
DA FORM 2404	DA PAM 750-8
TM 9-6625-3173-40-1	TM 9-6115-651-14&P
TM 11-6625-3173-12-1	TM 11-6625-3173-12-2
TM 11-6625-3173-30-1	TM 11-6625-3173-30-2
	TM 11-6625-3178-14

Perform General Support Maintenance on the Virtual Instrument Chassis (VIC)

093-94Y-1062

Conditions: In a contemporary operational environment (COE), given an emplaced Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V) with a faulty virtual instrument chassis (VIC) assembly; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3178-14; TM 11-6625-3173-12-1; TM 11-6625-3173-12-2; TM 11-6625-3173-30-1; TM 9-6625-3173-40-1; and TM 11-6625-3174-13.

Standards: Perform repair procedures on the VIC in accordance with TM 11-6625-3173-12-1 and TM 11-6625-3173-12-2. Faults, if any, are annotated, computerized adjustments are conducted, and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Review comments on DA Form 2404 for faults annotated.
3. Run individual self-test on faulty equipment in fault isolation mode.
4. Verify the fault persists.
5. Review on-screen display of fault candidate list.
6. Perform direct support (DS) troubleshooting procedures to isolate fault in accordance with TM 11-6625-3173-30-1.
   a. Analog VIC troubleshooting (refer to paragraph 2-9).
   b. Digital VIC troubleshooting (refer to paragraph 2-14).
7. Perform general support (GS) troubleshooting procedures (as required).
   a. Analog VIC troubleshooting (refer to Chapter 3 and Chapter 4).
   b. Digital VIC troubleshooting (refer to Chapter 3 and Chapter 4).
8. Perform removal and installation of faulty component according to maintenance procedures.
9. Rerun system self-test to verify fault correction.
10. Perform test station full power down.
11. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
NOTE: Individual task number 093-94Y-1002 has been performed.		
1. Followed all safety notes and special instructions.	____	____
2. Reviewed comments on DA Form 2404 for faults annotated.	____	____
3. Ran individual self-test on faulty equipment in fault isolation mode.	____	____
4. Verified the fault persists.	____	____
5. Reviewed on-screen display of fault candidate list.	____	____

Performance Measures	GO	NO-GO
6. Performed direct support (DS) troubleshooting procedures to isolate fault in accordance with TM 11-6625-3173-30-1.	____	____
7. Performed general support (GS) troubleshooting procedures (as required).	____	____
8. Performed removal and installation of faulty component according to maintenance procedures.	____	____
9. Reran system self-test to verify fault correction.	____	____
10. Performed test station full power down.	____	____
11. Completed and turned-in required maintenance forms.	____	____

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 2404
TM 9-6625-3173-40-1
TM 11-6625-3173-12-1
TM 11-6625-3173-12-2
TM 11-6625-3173-30-1
TM 11-6625-3174-13
TM 11-6625-3178-14

Related
DA PAM 750-8
TM 11-6625-3173-30-2

Maintain the Electrical-Electronic Test Station, AN/USM-632 (V)

093-94Y-1063

Conditions: In a contemporary operational environment (COE), given an emplaced and powered up Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V); 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3174-13; TM 11-6625-3178-14; TM 11-6625-3173-12-1; TM 11-6625-3173-12-2; TM 11-6625-3173-30-1; TM 11-6625-3173-30-2; TM 9-6625-3173-40-1; and TM 9-6625-3173-40-2.

Standards: Maintained the test station utilizing the test station's available system test. The test station is verified utilizing the following system tests to maintain the test station; test station self-test operation, self-alignment operation, system services, and test program set (TPS) operation according to the test station technical manuals (TMs).

Performance Steps

1. Follow all safety notes and special instructions.
2. Perform test station power up.
3. Perform indicator check procedures.
4. Perform log on procedures.
5. Perform self-test operation procedures.
6. Perform self-alignment operation.
7. Check error messages.
   a. Perform testing procedures on faulty component in accordance with appropriate TM (if required).
   b. Replace the faulty component in accordance with appropriate TM (if required).
   c. Run the appropriate test to verify fault was corrected (if required).
8. Perform test station full power down procedures.
9. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
1. Followed all safety notes and special instructions.	____	____
2. Performed test station power up.	____	____
3. Performed indicator check procedures.	____	____
4. Performed log on procedures.	____	____
5. Performed self-test operation procedures.	____	____
6. Performed self-alignment operation.	____	____
7. Checked error messages.	____	____
8. Performed test station full power down procedures.	____	____
9. Completed and turned-in required maintenance forms.	____	____

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	**Related**
DA FORM 2404	DA PAM 750-8
TM 9-6625-3173-40-1	TM 9-6115-651-14&P
TM 9-6625-3173-40-2	TM 11-6625-3173-24P
TM 11-6625-3173-12-1	TM 11-6625-3178-24P
TM 11-6625-3173-12-2	TM 11-6625-3266-24&P
TM 11-6625-3173-30-1	
TM 11-6625-3173-30-2	
TM 11-6625-3174-13	
TM 11-6625-3178-14	

Subject Area 2: Operate the Electronic Repair Shelter, OA-8991/TSM-191 (V)

Repair Multi-Layer Circuit Board to Industrial Standards

093-94Y-1068

Conditions: In a contemporary operational environment (COE), given an emplaced Electronic Repair Shelter (ERS), OA-8991/TSM-191 (V); defective multi-layered circuit boards from either the Electrical-Electronic Equipment Test Station or unit under test (UUT) for repair; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3173-40-1; and TM 11-6625-751-14&P.

Standards: Repair the multi-layered circuit boards utilizing the components within the ERS, OA-8991/TSM-191 (V) while observing all environmental and safety warnings and cautions.

Performance Steps

1. Follow all safety notes and special instructions.
2. Review the operator's DA From 2404.
3. Perform inspection of the faulty circuit board.
4. Select and prepare the required components within the ERS for operation to repair the faulty printed circuit board.
5. Repair/replace faulty component.
6. Inspect the printed circuit board to ensure repair meets Class III industry standard certification.
7. Power down components used for circuit board repair.
8. Complete and turn-in required maintenance forms.
9. Test the repaired printed circuit board.
10. Perform power shut down.

Performance Measures	**GO**	**NO-GO**
NOTE: Individual task number 093-94Y-1081 has been performed.		
1. Followed all safety notes and special instructions.	____	____
2. Reviewed the operator's DA From 2404.	____	____
3. Performed inspection of the faulty circuit board.	____	____
4. Selected and prepared the required components within the ERS for operation to repair the faulty printed circuit board.	____	____
5. Repaired/replaced faulty component.	____	____
6. Inspected the printed circuit board to ensure repair meets Class III industry standard certification.	____	____
7. Powered down components used for circuit board repair.	____	____

Performance Measures	GO	NO-GO
8. Completed and turned-in required maintenance forms.	____	____
9. Tested the repaired printed circuit board.	____	____
10. Performed power shut down.	____	____

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 2404
TM 9-6625-3173-40-1
TM 11-6625-751-14&P

Related
DA PAM 750-8
TM 5-4120-384-14
TM 9-2330-363-14&P
TM 9-6115-663-13&P
TM 9-6625-3173-40-2
TM 11-6625-3173-12-1
TM 11-6625-3173-12-2
TM 11-6625-713-14&P
TM 11-6625-715-14&P
TM 11-6625-716-14&P
TM 11-6625-717-14&P
TM 11-6625-718-14-1
TM 11-6625-718-14-2

Repair Line Replaceable Units/Shop Replaceable Units Using the Electronic Repair Shelter (ERS), OA-8991/TSM-191 (V)

093-94Y-1080

Conditions: In a contemporary operational environment (COE), given an emplaced ERS, OA-8991/TSM-191 (V); faulty component from a line replaceable unit (LRU) or shop replaceable unit (SRU) for testing; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); FM 3-100.4; TC 3-34.489; TM 9-6115-633-13&P; TM 11-6625-713-14&P; TM 11-6625-715-14&P; TM 11-6625-716-14&P; TM 11-6625-717-14&P; TM 11-6625-718-14-1; TM 11-6625-718-14-2; and TM 11-6625-751-14&P.

Standards: Repair the faulty components within a LRU or SRU identified during testing within the Electrical-Electronic Equipment Test Station utilizing the ERS, OA-8991/TSM-191 (V) while observing all environmental and safety warnings and cautions.

Performance Steps

1. Follow all safety notes and special instructions.
2. Review the operator's DA Form 2404.
3. Perform visual inspection of the faulty circuit board.
4. Select and prepare the required components within the ERS to repair the faulty printed circuit board.
5. Run test program set on the faulty unit under test (UUT) utilizing the VTS 1000 tester.
6. Isolate the faulty component on the UUT.
7. Replace faulty component.
8. Inspect the printed circuit board to ensure repairs meet Class III industry standards.
9. Complete and turn-in required maintenance forms.
10. Test printed circuit board to verify repair.
11. Perform power shutdown.

Performance Measures NOTE: Individual task number 093-94Y-1081 has been performed.	**GO**	**NO-GO**
1. Followed all safety notes and special instructions.	____	____
2. Reviewed the operator's DA Form 2404.	____	____
3. Performed visual inspection of the faulty circuit board.	____	____
4. Selected and prepared the required components within the ERS to repair the faulty printed circuit board.	____	____
5. Ran test program set on the faulty unit under test (UUT) utilizing the VTS 1000 tester.	____	____
6. Isolated the faulty component on the UUT.	____	____
7. Replaced faulty component.	____	____
8. Inspected the printed circuit board to ensure repairs meet Class III industry standards.	____	____

Performance Measures	GO	NO-GO
9. Completed and turned-in required maintenance forms.	____	____
10. Tested printed circuit board to verify repair.	____	____
11. Performed power shutdown.	____	____

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	Related
DA FORM 2404	DA PAM 750-8
FM 3-100.4	TB 385-4
TC 3-34.489	TM 5-4120-384-14
TM 9-6115-663-13&P	TM 9-2330-363-14&P
TM 11-6625-713-14&P	TM 750-244-2
TM 11-6625-715-14&P	
TM 11-6625-716-14&P	
TM 11-6625-717-14&P	
TM 11-6625-718-14-1	
TM 11-6625-718-14-2	
TM 11-6625-751-14&P	

Operate the Electronic Repair Shelter (ERS), OA-8991/TSM-191 (V)

093-94Y-1081

Conditions: In a contemporary operational environment (COE), given an emplaced ERS, OA-8991/TSM-191 (V); 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); FM 3-100.4; TB 385-4; TC 3-34.489; TM 5-4120-384-14; TM 9-2330-363-14&P; TM 9-6115-633-13&P; TM 11-6625-713-14&P; TM 11-6625-715-14&P; TM 11-6625-716-14&P; TM 11-6625-717-14&P; TM 11-6625-718-14-1; TM 11-6625-718-14-2; and TM 11-6625-751-14&P.

Standards: Perform Preliminary Turn-On and Turn-On procedures in accordance with TM 11-6625-751-14&P for the ERS and observe all safety and environmental cautions.

Performance Steps

1. Follow all safety notes and special instructions.
2. Perform preliminary turn-on procedures.
3. Perform turn-on procedures.
4. Operate the air conditioner.
5. Operate the portable space heaters.
6. Operate the micro blaster station.
7. Operate the fume extractor.
8. Operate the Surface Mounted Device (SMD) machine.
9. Operate the THELCO Conformal Oven.
10. Operate the VTS-1000 Series Tester.
11. Operate the Mantis Stereo Viewing System.
12. Perform power shut down.
13. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
1. Followed all safety notes and special instructions.	____	____
2. Performed preliminary turn-on procedures.	____	____
3. Performed turn-on procedures.	____	____
4. Operated the air conditioner.	____	____
5. Operated the portable space heaters.	____	____
6. Operated the micro blaster station.	____	____
7. Operated the fume extractor.	____	____
8. Operated the Surface Mounted Device (SMD) machine.	____	____
9. Operated the THELCO Conformal Oven.	____	____
10. Operate the VTS-1000 Series Tester.	____	____

Performance Measures	GO	NO-GO
11. Operated the Mantis Stereo Viewing System.	____	____
12. Performed power shut down.	____	____
13. Completed and turned-in required maintenance forms.	____	____

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 2404
FM 3-100.4
TB 385-4
TC 3-34.489
TM 5-4120-384-14
TM 9-2330-363-14&P
TM 9-6115-663-13&P
TM 11-6625-713-14&P
TM 11-6625-715-14&P
TM 11-6625-716-14&P
TM 11-6625-717-14&P
TM 11-6625-718-14-1
TM 11-6625-718-14-2
TM 11-6625-751-14&P

Related
DA PAM 750-8

Perform Preventive Maintenance Checks and Services on the Electronic Repair Shelter (ERS), OA-8991/TSM-191 (V)

093-94Y-1082

Conditions: In a contemporary operational environment (COE), given an emplaced ERS, OA-8991/TSM-191 (V); 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); FM 3-100.4; TB 385-4; TC 3-34.489; TM 5-4120-384-14; TM 9-2330-363-14&P; TM 9-6115-663-13&P; TM 11-6625-713-14&P; TM 11-6625-715-14&P; TM 11-6625-716-14&P; TM 11-6625-717-14&P; TM 11-6625-718-14-1; TM 11-6625-718-14-2; and TM 11-6625-751-14&P.

Standards: Perform the required preventive maintenance checks and services (PMCS) on the ERS, OA-8991/TSM-191 (V) while observing all environmental and safety warnings and cautions.

Performance Steps

1. Follow all safety notes and special instructions.
2. Identify which checks and services are inspections that are to be made at specific interval and level is required.
   a. Operator level - during interval.
   b. Operator level - weekly interval.
   c. Operator level - monthly interval.
   d. Organizational level - weekly interval.
   e. Organizational level - monthly interval.
   f. Organizational level - quarterly interval.
   g. Organizational level - semiannual interval.
   h. Organizational level - annual interval.
3. Perform operator during (D) PMCS.
4. Perform operator weekly (W) PMCS.
5. Perform operator monthly (M) PMCS.
6. Perform organizational level weekly (W) PMCS.
7. Perform organizational level monthly (M) PMCS.
8. Perform organizational level quarterly (Q) PMCS.
9. Perform organizational level semiannual (S) PMCS.
10. Perform organizational level annual (A) PMCS.
11. Perform power down procedures.
12. Complete and turn-in required maintenance forms.

Performance Measures	GO	NO-GO
1. Followed all safety notes and special instructions.	____	____
2. Identified which checks and services were inspections that were to be made at specific interval and level is required.	____	____
3. Performed operator during (D) PMCS.	____	____
4. Performed operator weekly (W) PMCS.	____	____
5. Performed operator monthly (M) PMCS.	____	____
6. Performed organizational level weekly (W) PMCS.	____	____
7. Performed organizational level monthly (M) PMCS.	____	____
8. Performed organizational level quarterly (Q) PMCS.	____	____
9. Perform organizational level semiannual (S) PMCS.	____	____
10. Performed organizational level annual (A) PMCS.	____	____
11. Performed power down procedures.	____	____
12. Completed and turned-in required maintenance forms.	____	____

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 2404
FM 3-100.4
TB 385-4
TC 3-34.489
TM 5-4120-384-14
TM 9-2330-363-14&P
TM 9-6115-663-13&P
TM 11-6625-713-14&P
TM 11-6625-715-14&P
TM 11-6625-716-14&P
TM 11-6625-717-14&P
TM 11-6625-718-14-1
TM 11-6625-718-14-2
TM 11-6625-751-14&P

Related
DA PAM 750-8
TB 43-0118

Repair the Electronic Repair Shelter (ERS), OA-8991/TSM-191 (V)

093-94Y-1083

Conditions: In a contemporary operational environment (COE), given an emplaced ERS, OA-8991/TSM-191 (V) with a faulty component; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 5-4120-384-14; TM 9-2330-363-14&P; TM 9-6115-663-13&P; TM 11-6625-713-&P; TM 11-6625-715-14&P; TM 11-6625-716-14&P; TM 11-6625-717-14&P; TM 11-6625-718-14-1; TM 11-6625-718-14-2; and TM 11-6625-751-14&P.

Standards: Perform repair procedures on a faulty component within the ERS, OA-8991/TSM-191 in accordance with TM 11-6625-751-14&P and the faulty components technical manual (TM) as required. Faults are annotated and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Review the operator's DA Form 2404.
3. Perform a visual inspection of the faulty component.
4. Perform troubleshooting procedures for fault isolation.
   a. Find problem on Table 4-3 or Table 6-7 in TM 11-6625-751-14&P.
   b. Identify probable cause of failure encountered.
   c. Perform corrective action to repair malfunction.
5. Perform procedures for the maintenance and removal of a faulty component/assembly.
6. Perform installation of an operational component/assembly.
7. Verify faulty component repairs.
8. Perform power shutdown of shelter.
9. Complete and turn-in required maintenance forms.

Performance Measures NOTE: Individual task number 093-94Y-1081 has been performed.	**GO**	**NO-GO**
1. Followed all safety notes and special instructions.	____	____
2. Reviewed the operator's DA Form 2404.	____	____
3. Performed a visual inspection of the faulty component.	____	____
4. Performed troubleshooting procedures for fault isolation.	____	____
5. Performed procedures for the maintenance and removal of a faulty component/assembly.	____	____
6. Performed installation of an operational component/assembly.	____	____
7. Verified faulty component repairs.	____	____
8. Performed power shutdown of shelter.	____	____
9. Completed and turned-in required maintenance forms.	____	____

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 2404
TM 5-4120-384-14
TM 9-2330-363-14&P
TM 9-6115-663-13&P
TM 11-6625-713-14&P
TM 11-6625-715-14&P
TM 11-6625-716-14&P
TM 11-6625-717-14&P
TM 11-6625-718-14-1
TM 11-6625-718-14-2
TM 11-6625-751-14&P

Related

DA PAM 750-8

Subject Area 3: Electro-Optics Test Facility (EOTF)

Repair the VXI Chassis within the Electro-Optics Test Facility (EOTF)
093-94Y-1090

Conditions: In a contemporary operational environment (COE), given an emplaced Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V) with a faulty Vera Module Eurocard (VME) bus Extensions for Instrumentation (VXI) chassis; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3178-14; and TM 11-6625-3174-13.

Standards: Perform repair procedures on the VXI chassis in accordance with TM 11-6625-3174-13. Faults, if any, are annotated, computerized adjustments are conducted, and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Review the operator's DA Form 2404.
3. Perform power up and log on procedures.
4. Verify the fault persists by using self-test capabilities of test station.
5. Perform troubleshooting procedures to isolate faulty component.
   a. Perform unit level troubleshooting.
   b. Perform direct support maintenance troubleshooting (as required).
6. Perform test station partial power down procedure as described in WP 0064 00.
7. Remove faulty component and install operational component.
8. Perform test station power up procedures as described in WP 0009 00.
9. Update or verify Ethernet address (as required).
10. Perform individual module self-test of installed component in fault detection mode.
11. Run system self-test program to verify fault correction.
12. Complete and turn-in required maintenance forms.
13. Perform test station full power down.

Performance Measures	**GO**	**NO-GO**
NOTE: Individual task number 093-94Y-1002 has been performed.		
1. Followed all safety notes and special instructions.	____	____
2. Reviewed the operator's DA Form 2404.	____	____
3. Performed power up and log on procedures.	____	____
4. Verified the fault persists by using self-test capabilities of test station.	____	____
5. Performed troubleshooting procedures to isolate faulty component.	____	____

Performance Measures	GO	NO-GO
6. Performed test station partial power down procedure as described in WP 0064 00.	____	____
7. Removed faulty component and installed operational component.	____	____
8. Performed test station power up procedures as described in WP 0009 00.	____	____
9. Updated or verified Ethernet address (as required).	____	____
10. Performed individual module self-test of installed component in fault detection mode.	____	____
11. Ran system self-test program to verify fault correction.	____	____
12. Completed and turned-in required maintenance forms.	____	____
13. Performed test station full power down.	____	____

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	Related
DA FORM 2404	DA PAM 750-8
TM 11-6625-3174-13	TM 9-6115-651-14&P
TM 11-6625-3178-14	TM 11-6625-3266-24&P
	TM 11-6625-3267-24&P
	TM 11-6625-3613-14&P

Replace the Electro-Optic Module (EOM)

093-94Y-1091

Conditions: In a contemporary operational environment (COE), given an emplaced Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V) with a faulty EOM assembly; 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3178-14; and TM 11-6625-3174-13.

Standards: Perform replacement procedures on the EOM assembly in accordance with TM 11-6625-3174-13. Faults, if any, are annotated, computerized adjustments are conducted, and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.
2. Review the operator's comments on DA Form 2404, identifying faulty EOM assembly.
3. Verify the EOM assembly as the faulty component.
4. Remove the EOM as described in WP 0044 00.
    a. Perform test station partial power down procedure as described in WP 0064 00.
    b. Remove four panel screws and four short screws.
    c. Position wood blocks on mechanical lift about 5 inches from each end. Move mechanical lift so it will be positioned about 2 inches under EOM, lock brakes on mechanical lift, and slide EOM out to locked position.
    d. At rear panel of EOM remove connector P1 of cable A31U17928-1 from connector J1.
    e. Remove connector P2 of cable A31U17926-1 from connector J2.
    f. Raise mechanical lift until it is absorbing weight of EOM. Using a minimum of three persons, release left and right slide locks and slide EOM slides into cabinet.
    g. Remove two screws and lower bracket.
    h. Remove two screws, lock washers, and flat washers on top and bottom and one screw in center of left bracket and remove bracket. Repeat for right bracket.
5. Install the EOM.
    a. Using the hoist and davit assembly, position EOM (figure 1, 1) on wood blocks on mechanical lift. Refer to TM 11–6625–3175–13.
    b. Secure left and right brackets to EOM with two screws, lock washers, and flat washers (7) each on top and bottom and one screw (8) each in center.
    c. Secure lower bracket (2) using two screws (3).
    d. Install EOM on cabinet slides (9), and engage slide locks (10).
    e. At rear panel of EOM install connector P1 (11) of cable A31U17928-1 on connector J1.
    f. Install connector P2 (12) of cable A31U17926-1 on connector J2.
    g. Verify EOM is fully extended and locked out on slides and lower mechanical lift to approximately 2 inches below EOM. Release left and right slide locks and slide EOM in until front panel is flush with front of cabinet.
    h. Secure EOM using four long screws (4) and four short screws (4A)
6. Perform Loading EOM Calibration Factors procedure as described in WP 0010 00 (if required).
7. Perform Test Station power up procedure according to WP 0009 00.
8. Perform individual Self-Test in fault detection mode of EOM as described in WP 0010 00.
9. Complete and turn-in required maintenance forms.

Performance Measures	**GO**	**NO-GO**
NOTE: Individual task number 093-94Y-1002 has been performed.		
1. Followed all safety notes and special instructions.	____	____
2. Reviewed the operator's comments on DA Form 2404, identifying faulty EOM assembly.	____	____
3. Verified the EOM assembly as the faulty component.	____	____
4. Removed the EOM as described in WP 0044 00.	____	____
5. Installed the EOM.	____	____
6. Performed Loading EOM Calibration Factors procedure as described in WP 0010 00 (if required).	____	____
7. Performed Test Station power up procedure according to WP 0009 00.	____	____
8. Performed individual Self-Test in fault detection mode of EOM as described in WP 0010 00.	____	____
9. Completed and turned-in required maintenance forms.	____	____

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	**Related**
DA FORM 2404	DA PAM 750-8
TM 11-6625-3174-13	TM 9-6115-651-14&P
TM 11-6625-3178-14	TM 11-6625-3178-24P
	TM 11-6625-3266-24&P
	TM 11-6625-3267-24&P
	TM 11-6625-3613-14&P

Install Electro-Optic Module (EOM) Software and Calibration Factors

093-94Y-1092

Conditions: In a contemporary operational environment (COE), given an emplaced Electronic Shop Transportable, AN/TSM-191 (V); Electrical-Electronic Equipment Test Station, AN/USM-632 (V); 60 KW generator set or commercial power source; DA Form 2404 (Equipment Inspection and Maintenance Worksheet); TM 11-6625-3178-14; and TM 11-6625-3174-13.

Standards: Load the operating system software and EOM calibration factors within the Electrical-Electronic Test Station in accordance with TM 11-6625-3174-13. Faults, if any, are annotated, computerized adjustments are conducted, and repairs are made based on the repairer's authorized level of maintenance.

Performance Steps

1. Follow all safety notes and special instructions.

NOTE: The following procedure should be performed after new EOM calibration factors have been manually entered. This procedure stores the calibration factors on a floppy disc so that they can be easily transferred to a new Video Processor Assembly if the current one fails.

2. Copy EOM calibration file as described in WP 0010 00.

NOTE: The following procedure should be performed after replacing a Video Processor Module to transfer the EOM calibration factors to the new Video Processor Module.

3. Restore EOM Calibration File.

4. Load Operating System software.

NOTE: A hard copy of the EOTF Installation Instructions is provided with the distribution of the software. The installation instructions can be found at the root directory of the compact disk (CD) in the file named ?installation procedure.txt?, when viewing from an EOTF.

5. Load EOM calibration factors as described in WP 0010 00.

6. Complete and turn-in required maintenance forms.

7. Perform test station full power down.

Performance Measures	**GO**	**NO-GO**
NOTE: Individual task number 093-94Y-1002 has been performed.		
1. Followed all safety notes and special instructions.	____	____
2. Copied EOM calibration file as described in WP 0010 00.	____	____
3. Restored EOM Calibration File.	____	____
4. Loaded Operating System software.	____	____
5. Loaded EOM calibration factors as described in WP 0010 00.	____	____
6. Completed and turned-in required maintenance forms.	____	____
7. Performed test station full power down.	____	____

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	**Related**
DA FORM 2404	DA PAM 750-8
TM 11-6625-3174-13	
TM 11-6625-3178-14	

Skill Level 3

Subject Area 5: Maintenance Management I

Submit a Quality Deficiency Report (QDR)

093-SSG-3004

Conditions: In a contemporary operational environment (COE), given the requirement to submit a QDR for a serious or recurring maintenance problem and given Army regulation (AR) 95-1, AR 725-50, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet), DA Form 2407 (Maintenance Request), Department of Defense (DD) Form 1575 (Suspended Tag - Materiel), DD Form 2332 (Product Quality Deficiency Report Exhibit), DA Pamphlet 750-8, DA Pamphlet 738-751, Standard Form (SF) Form 368 (Product Quality Deficiency Report), and Technical Bulletin (TB) 43-0001-series. This task can be performed in a field or garrison environment.

Standards: Identify conditions that indicate a quality deficiency exists, prepare the appropriate report form, and identify and retain QDR exhibits that had been disposed of.

Performance Steps

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

1. Identify one or more conditions that indicate a quality deficiency existed.
   a. A condition in or with the equipment dangerous to people, other equipment, or the mission.
   b. An item or equipment that does not work right or lasts as long as it should have because of bad design or materials.
   c. Items that are 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 prevents use of the equipment.
   h. Repeat problems that take a lot of time with no solutions in sight.
   i. Problems requested to be reported by the national maintenance point (NMP).
   j. Corrosion problems in or on parts, components, assemblies, weapon systems, and/or equipment.

2. Identify defect as a Category I or Category II deficiency.
   a. Identify as a Category 1 deficiency any defect that--
      (1) May have caused death, injury, or severe job illness.
      (2) Would have caused loss or major damage to a weapon system.
      (3) Would have critically restricted the combat readiness capabilities of the unit.
   b. Identify any defect as Category II deficiency that does not meet the criteria for a Category I deficiency.

3. Prepare appropriate QDR for Category I or Category II.
   a. Prepare Category I report in message format copy of SF Form 368 in accordance with DA Pamphlet 750-8.
   b. Prepare Category II report on SF Form 368 in accordance with DA Pamphlet 750-8.

4. Forward SF Form 368 to the major subordinate command (MSC) within 48 hours (Category I deficiencies) or 5 working days (Category II deficiencies) after the defect or problem was found.

NOTE: Category I reports may be phoned in or brought in for immediate assistance, with message following within the 48-hour time frame.

5. The MSC acknowledges receipt and begins screening stocks within 24 hours of the report.

6. Files one copy of the SF Form 368 until the Army screening point closes the case.

Performance Steps

7. Sends one copy of the SF Form 368 to the support maintenance activity.

NOTE: Sent SF Form 368 even if--

a. Correspondence indicates the problem is known to exist.
b. Other units send in a QDR on the same problem.

8. Identify defective equipment as exhibits.

9. Retain QDR exhibits in accordance with DA Pamphlet 750-8.

10. Follow disposition instructions received from the MSC action office responsible for the exhibits.

NOTE: Follow steps 11 through 18 for preparation of QDRs on aviation equipment.

11. Identify any of the following conditions that indicate an aviation quality deficiency exists in accordance with DA Pamphlet 738-751, Chapter 3.
    a. A condition involving personnel safety or safety of flight (SOF) as defined in AR 95-1.
    b. Suspected or confirmed materiel failure that causes a Class A, B, C, D, or E aircraft mishap.
    c. Materiel failure or fault that would cause a hazard to personnel or equipment or hinder safe completion of the mission.
    d. 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 cause the failure of aircraft or aviation associated equipment, to include mission related equipment, components and modules, repair parts, systems, and/or subsystems.
    f. During initial test or use, found a defective stock funding of depot level repairables (SFDLR) item, and such defect was not caused by user accident, misuse, improper installation, and/or operation, unauthorized repair, or alteration.

12. Identify deficiencies as Category I or Category II.
    a. Identify 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 aircrew 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 mission, design, and series (MDS).
        (4) Incorrect or missing data in technical publications that may have caused a hazardous operational or maintenance problem.
    b. Identify as a Category II deficiency any defect that did not meet the criteria for a Category I deficiency.

13. Prepare SF Form 368 for Category I or Category II deficiency in accordance with DA Pamphlet 738-751, Chapter 3.

14. Submit a Category I or Category II report in accordance with DA Pamphlet 738-751.

15. Distribute file copies of the SF Form 368 in accordance with DA Pamphlet 738-751.

NOTE: Sent SF Form 368 even if --

a. Manufacturer 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. Identify defective equipment as exhibits.

Performance Steps

17. Receive acknowledgment of receipt of Category I report within 48 hours or Category II report within 7 days from Aviation and Missile Command (AMCOM). The acknowledgement included the disposition instructions for exhibits.
18. Follow disposition instructions received from the AMCOM action office for the exhibits.

Performance Measures	**GO**	**NO-GO**
NOTE: Follow steps 1 through 10 for all equipment except aviation equipment. For aviation equipment, follow steps 11 through 18.		
1. Identified one or more conditions that indicated a quality deficiency existed.	____	____
2. Identified defect as a Category I or Category II deficiency.	____	____
3. Prepared appropriate QDR for Category I or Category II.	____	____
4. Forwarded SF Form 368 to the major subordinate command (MSC) within 48 hours (Category I deficiencies) or 5 working days (Category II deficiencies) after the defect or problem was found.	____	____
5. The MSC acknowledged receipt and began screening stocks within 24 hours of the report.	____	____
6. Kept one copy of the SF Form 368 until the Army screening point closed the case.	____	____
7. Sent one copy of the SF Form 368 to the support maintenance activity.	____	____
8. Identified defective equipment as exhibits.	____	____
9. Retained QDR exhibits in accordance with DA Pamphlet 750-8.	____	____
10. Followed disposition instructions received from the MSC action office responsible for the exhibits.	____	____
NOTE: Follow steps 11 through 18 for preparation of QDRs on aviation equipment.		
11. Identified any of the following conditions that indicated an aviation quality deficiency existed in accordance with DA Pamphlet 738-751, Chapter 3.	____	____
12. Identified deficiencies as Category I or Category II.	____	____
13. Prepared SF Form 368 for Category I or Category II deficiency in accordance with DA Pamphlet 738-751, Chapter 3.	____	____
14. Submitted a Category I or Category II report in accordance with DA Pamphlet 738-751.	____	____
15. Distributed file copies of the SF Form 368 in accordance with DA Pamphlet 738-751.	____	____
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 Aviation and Missile Command (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 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	**Related**
AR 95-1	AR 702-7
AR 725-50	AR 702-7-1
DA FORM 2404	
DA FORM 2407	
DA PAM 738-751	
DA PAM 750-8	
DD FORM 1575	
DD FORM 2332	
SF FORM 368	
TB 43-0001-SERIES	

Submit Equipment Improvement Recommendation (EIR)

093-SSG-3005

Conditions: You have found a better way to repair a piece of electronic equipment. In a contemporary operational environment (COE), submit an EIR given the following: Army regulation (AR) 672-20, Department of the Army (DA) Pamphlet 750-8, and Standard Form (SF) Form 368 (Product Quality Deficiency Report). This task can be performed in a field or garrison environment.

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

Performance Steps

1. Identify conditions that indicate 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 solutions in sight.
   i. Problems requested to be reported by the national maintenance point (NMP).
2. Report Category I or Category II recommendations for improvements.
   a. Reports 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. Reports as a Category II recommendation any recommendation that does not meet the criteria of a Category I equipment improvement recommendation.
3. Send in a Category I or Category II equipment improvement recommendation.
   a. Prepares SF Form 368 in accordance with DA Pamphlet 750-8, Chapter 10.
   b. Sends a message within 48 hours (Category I recommendation) or 5 days (Category II recommendation) after defect or problem was found.
   c. Keeps one copy of the SF Form 368 until the Army screening point closed the case.
   d. Sends one copy of the SF Form 368 to the support maintenance activity.
4. Check AR 672-20 to see if the EIR qualified as a suggestion.

Performance Measures	**GO**	**NO-GO**
1. Identified conditions that indicated a need to improve the performance and/or maintenance of equipment.	____	____
2. Reported Category I or Category II recommendations for improvements.	____	____
3. Sent in a Category I or Category II equipment improvement recommendation.	____	____
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 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

AR 672-20
DA PAM 750-8
SF FORM 368

Related

DA PAM 738-751

Plan Work Flow

093-SSG-3006

Conditions: In a contemporary operational environment (COE), given Department of the Army (DA) Form 2407s (Maintenance Request) or DA Form 5990-Es (Maintenance Request [EGA])/job packets with various issue priority designators, a visible index file showing the shop workload summary, and Technical Manual (TM) 38-L09-11. This task can be performed in a field or garrison environment.

Standards: Distribute all DA Form 2407s or DA Form 5990-Es/job packets by issue priority designators, highest priorities first. Ensure the visible index file was up to date, legible, and complete according to TM 38-L09-11.

Performance Steps

1. Arrange the DA Form 2407s/DA Form 5990-Es/job packets by issue priority designators, highest priorities first.
2. Use the DA Form 2407s/DA Form 5990-Es/job packets in the same order to assign jobs to repairers.
3. Monitor work as the jobs went through the repair process.
4. Assign new jobs to the repairers as they completed those assigned.
5. Review all paperwork within the job packets for completeness.
6. Update the visible index file.

Performance Measures	**GO**	**NO-GO**
1. Arranged the DA Form 2407s/DA Form 5990-Es/job packets by issue priority designators, highest priorities first.	____	____
2. Used the DA Form 2407s/DA Form 5990-Es/job packets in the same order to assign jobs to repairers.	____	____
3. Monitored work as the jobs went through the repair process.	____	____
4. Assigned new jobs to the repairers as they completed those 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 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	**Related**
DA FORM 2407	DA FORM 2407-1
DA FORM 5990-E	DA PAM 738-751
TM 38-L09-11	DA PAM 750-8
	FM 4-30.3

Direct Performance of Preventive Maintenance

093-SSG-3007

Conditions: In a contemporary operational environment (COE), given personnel to perform preventive maintenance checks and services (PMCS), Department of the Army (DA) Form 2408-14 (Uncorrected Fault Record), DA Form 2404 (Equipment Inspection and Maintenance Worksheet) or DA Form 5988-E (Equipment Inspection Maintenance Worksheet [EGA]), Department of Defense (DD) Form 314 (Preventive Maintenance Schedule and Record), DA Pamphlet 750-8, DA Pamphlet 738-751, equipment, and vehicle -10 series technical manuals (TMs). This task can be performed in a field or garrison under normal, extreme heat, and extreme cold environment conditions.

NOTE: All the information from DA Form 2408-14 is now included in DA Form 5988-E.

Standards: Perform all PMCS according to the applicable -10 series TMs. Complete DA Form 2404 or DA Form 5988-E and DA Form 2408-14 and DD Form 314 according to DA Pamphlet 750-8 or DA Pamphlet 738-751.

Performance Steps

1. Coordinate with the motor pool section prior to performing section/shop vehicle PMCS.
2. Review the DD Form 314 and the applicable -10 series TMs to conduct weekly vehicle PMCS.
    a. Identify which PMCS service operation must be performed.
    b. Identify each piece of equipment for which operation under conditions inspection must be performed.
        (1) Operation under usual conditions.
        (2) Operation under unusual conditions.
            (a) Operation in extreme cold weather.
            (b) Operation in extreme heat weather.
            (c) Operation in dusty or sandy areas.
            (d) Operation under rainy or humid conditions.
3. Identify hazards to the environment before starting PMCS.
4. Assign jobs and ensure that repairers know what PMCS must be performed.
5. Spot-check the work being performed and ensure that the repairers are using the applicable TMs.
6. Assess the probability of environmental damage/violations using environmental risk assessment matrices during PMCS.
7. Spot-check corrective actions taken for all defects listed on DA Form 2404.
8. Coordinate with the maintenance sergeant to repair vehicles requiring services beyond the driver's responsibility.
    a. Ensure the repairer placed a drip pan under any equipment leaking fluids onto the ground.
    b. Make sure parts needed for repair that are not available are entered on DA Form 5988-E or DA Form 2408-14.
9. Check the DD Form 314 for correctness.
10. Report vehicle status to section/shop supervisor.
11. Brief the chain of command on any observed environmental potentially high-risk areas during PMCS.

Performance Measures	GO	NO-GO
1. Coordinated with the motor pool section prior to performing section/shop vehicle PMCS.	____	____
2. Reviewed the DD Form 314 and the applicable -10 series TMs to conduct weekly vehicle PMCS.	____	____
3. Identified hazards to the environment before starting PMCS.	____	____
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 TMs.	____	____
6. Assessed the probability of environmental damage/violations using environmental risk assessment matrices during PMCS.	____	____
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.	____	____
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 potentially high-risk areas during PMCS.	____	____

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	Related
DA FORM 2404	AR 200-1
DA FORM 2408-14	FM 4-30.3
DA FORM 5988-E	TC 3-34.489
DA PAM 738-751	
DA PAM 750-8	
DD FORM 314	

Provide Technical Assistance to Repairers

093-SSG-3008

Conditions: A repairer in the electronics/avionics maintenance shop requires technical assistance. In a contemporary operational environment (COE), given Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet) or DA Form 5988-E (Equipment Inspection Maintenance Worksheet [EGA]), DA Form 2407 (Maintenance Request) or DA Form 5990-E (Maintenance Request [EGA]), DA Pamphlet 750-8, DA Pamphlet 738-751, and Technical Bulletin (TB) 385-4, provide needed assistance to the repairer. This task can be performed in a field or garrison environment.

Standards: Provide technical assistance that will enable the repairer to perform repair procedures correctly.

Performance Steps

1. Determine the type of assistance needed by the repairer, such as isolating the malfunction, repairing the malfunction, or making proper entries on the paperwork.
2. Review 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. Verify repairer observes WARNING, CAUTION, and NOTE statements in applicable references and observed all safety precautions.
4. Review the repair procedures performed by the repairer.
5. Provide technical assistance to the repairer.
6. Counsel repairer on areas of technical weakness.
7. Recommend technical material and training to increase repairer's expertise.

Performance Measures	**GO**	**NO-GO**
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 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 2404
DA FORM 2407
DA FORM 5988-E
DA FORM 5990-E
DA PAM 738-751
DA PAM 750-8
TB 385-4

Related

Perform Initial Inspections

093-SSG-3009

Conditions: In a contemporary operational environment (COE), given applicable technical manuals (TMs), the equipment to be inspected, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet) or DA Form 5988-E (Equipment Inspection Maintenance Worksheet [EGA]), DA Form 2407 (Maintenance Request) or DA Form 5990-E (Maintenance Request [EGA]), DA Pamphlet 750-8, and DA Pamphlet 738-751. This task can be performed in a field or garrison environment.

Standards: Perform the initial inspection, ensuring that the equipment was repairable according to the applicable TMs; identify all defects, and complete all maintenance forms according to DA Pamphlet 750-8 or DA Pamphlet 738-751.

Performance Steps

1. Check submitted paperwork for completeness and accuracy.
2. Inspect the equipment for physical damage and determined if it is feasible to repair the equipment.
3. Ensure that operator maintenance have been performed on the equipment.
4. Inventory the equipment to ensure that it is complete.
5. Ensure that all modification work orders (MWOs) are complete.
6. Perform self-tests or checks on the equipment, if necessary.
7. Record all defects or reasons for rejection the equipment on DA Form 2404 or DA Form 5988-E.

Performance Measures	**GO**	**NO-GO**
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 modification work orders (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 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 2404
DA FORM 2407
DA FORM 5988-E
DA FORM 5990-E
DA PAM 738-751
DA PAM 750-8

Related

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

Perform Final Inspections

093-SSG-3010

Conditions: In a contemporary operational environment (COE), given applicable technical manuals (TMs), equipment to be inspected, Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet) or DA Form 5988-E (Equipment Inspection Maintenance Worksheet [EGA]), DA Form 2407 (Maintenance Request) or DA Form 5990-E (Maintenance Request [EGA]), DA Pamphlet 750-8, and DA Pamphlet 738-751. This task can be performed in a field or garrison environment.

Standards: Perform final inspection. Ensure that equipment was complete according to applicable TMs, 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 Pamphlet 750-8 or DA Pamphlet 738-751.

Performance Steps

1. Check the equipment to determine if it is complete and that all defects found on the initial and in-process inspections are complete.
2. Ensure that all forms and records are complete and correct.
3. Record any additional defects on DA Form 2404 or DA Form 5988-E and return the equipment to production control.
4. Sign and date the DA Form 2407 or DA Form 5990-E when the equipment passes its final inspection.

Performance Measures	GO	NO-GO
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 the DA Form 2407 or DA Form 5990-E when the equipment passed its final inspection.	____	____

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	Related
DA FORM 2404	DA PAM 750-1
DA FORM 2407	FM 4-30.3
DA FORM 5988-E	TM 750-245-4
DA FORM 5990-E	
DA PAM 738-751	
DA PAM 750-8	

Perform In-Process Inspections

093-SSG-3012

Conditions: In a contemporary operational environment (COE), given applicable inspection forms and technical manuals (TMs), DA Pamphlet 750-8, and DA Pamphlet 738-751, conducts in-process inspection of a repairer performing repairs on equipment. This task can be performed in a field or garrison environment.

Standards: Perform in-process inspection. Ensure that the proper tools and equipment were being used and all safety rules and warnings were being followed according to applicable TMs. Complete all forms according to DA Pamphlet 750-8 or DA Pamphlet 738-751 and report inspection results.

Performance Steps

1. Use the proper tools and equipment during in-process inspection.
2. Use the proper technical manual repair procedures during in-process inspection.
3. Ensure that authorized repair parts and supplies are available.
4. Ensure that only authorize repairs are performed on the equipment.
5. Ensure that only authorize personnel make the repairs.
6. Ensure that all safety rules and warnings are used.
7. Ensure that all forms are filled out correctly.
8. Make an oral or written report of the inspection to the repair section chief and the quality control section supervisor.

Performance Measures	**GO**	**NO-GO**
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 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	**Related**
DA PAM 738-751	FM 4-30.3
DA PAM 750-8	TM 750-245-4

Subject Area 6: Maintenance Management II

Inspect Section/Shop Safety
093-SSG-3001

Conditions: In a contemporary operational environment (COE), given a requirement to inspect an electronics or avionics maintenance shop area and given Army regulation (AR) 40-5, AR 385-10, Department of the Army (DA) Pamphlet 40-501, DA Pamphlet 385-1, Technical Bulletin (TB) 385-3, TB 385-4, TB Medical (MED) 523, unit and local standing operating procedures (SOPs), and unit safety checklist. This task can be performed in a field or garrison environment.

Standards: Conduct inspection 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. Establish an inspection schedule covering what to inspect and how frequently. Record deficiencies and recommended corrective actions and retained these reports to check progress. Follow up to ensure deficiencies had been corrected.

Performance Steps

1. Review the Army, company, and maintenance shop safety policies, regulations, and local SOPs.
2. Ensure that all of the Army safety references and company and maintenance shop SOPs are being followed.
3. Plan periodic safety inspections for all section/shop work areas.
   a. Identify hazards to the environment prior to the inspection process.
   b. Assess the probability of environmental damage/violations using environmental risk assessment matrices before the inspection process.
4. Schedule the inspection so that disruptions to normal operations are as little as possible.
5. Inspect areas with the greatest potential for accident severity and those having the highest accident frequency more frequently.
6. Develop a suitable checklist of items to be inspected in accordance with AR 385-10, AR 40-5, DA Pamphlet 40-501, DA Pamphlet 385-1, TB 385-3, TB 385-4, TB MED 523, and maintenance section/shop SOPs.
7. Inspect the maintenance section/shop to ensure that all test equipment calibration dates are current.
8. Inspect all of the equipment and benches for proper grounding within the maintenance section/shop areas.
9. Inspect the maintenance section/shop to ensure that a mounted safety board is present.
10. Inspect the maintenance section/shop to ensure that rubber floor mats or similar insulating materials are available for each repair position.
11. Inspect the maintenance section/shop to ensure that all power attachments, plugs, and connectors are serviceable with no exposed parts carrying electric current except the prongs.
12. Inspect and identify all of the physical and high-voltage hazards within the maintenance section/shop areas.
13. Inspect the maintenance section/shop to ensure it complies with host nation, local, state, and federal environmental laws and regulations.

Performance Steps

14. Brief the chain of command on the results, potential high-risk areas, and recommendations from the safety inspection.
15. Identify all safety hazards and took corrective action.
16. Ensure all deficiencies found during inspection have proper corrective action scheduled.

Performance Measures	**GO**	**NO-GO**
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 periodic safety inspections for all section/shop work areas.	____	____
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 Pamphlet 40-501, DA Pamphlet 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 all of the equipment and benches for proper grounding within the maintenance section/shop areas.	____	____
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 parts carrying electric current except the prongs.	____	____
12. Inspected and identified all of the physical and high-voltage hazards within the maintenance section/shop areas.	____	____
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 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	**Related**
AR 40-5	AR 200-1
AR 385-10	FM 3-04.500
DA PAM 40-501	FM 4-30.3
DA PAM 385-1	TB 43-0129
LOCAL SOP	TC 3-34.489
TB 385-3	
TB 385-4	
TB MED 523	

Manage Section/Shop Security

093-SSG-3002

Conditions: In a contemporary operational environment (COE), given AR 25-2, AR 190-13, AR 380-5, AR 380-40, DA Pamphlet 190-51, FM 3-19.30, and local and unit standing operating procedures (SOPs). This task can be performed in a field or garrison environment.

Standards: Ensure that all Army security policies and regulations and the maintenance shop and local SOPs were followed. Identify and report all security deficiencies and ensured that all deficiencies were corrected.

Performance Steps

1. Review all of the Army security policies and regulations and the maintenance shop and local SOPs.
2. Ensure a work place risk analysis is performed.
3. Ensure that physical security policies, regulations, and SOPs are followed.
4. Ensure that classification and marking policies are followed.
5. Ensure that all security control policies and regulations are followed.
6. Ensure that personnel security and signal training policies are followed.
   a. Initial security training and briefing for newly assigned personnel.
   b. Refresher security training for assigned personnel.
   c. Procedures for identifying and reporting insecurities.
7. Ensure that signal security (SIGSEC) policies and regulations are followed.
   a. Ensure subordinates follow all Army and unit policies and regulations covering communications security (COMSEC) procedures.
   b. Ensure subordinates follow all Army and unit policies and regulations covering electronics security (ELSEC) procedures.
8. Identify and report all security deficiencies and ensure that all deficiencies are corrected.

Performance Measures	**GO**	**NO-GO**
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.	____	____
7. Ensured that signal security (SIGSEC) policies and regulations were followed.	____	____
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 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

AR 25-2
AR 190-13
AR 380-5
AR 380-40
DA PAM 190-51
FM 3-19.30
LOCAL SOP

Related

AR 5-12
DA PAM 25-380-2
FM 4-30.3
FM 34-60

Maintain Section/Shop Calibration Program

093-SSG-3003

Conditions: In a contemporary operational environment (COE), given the maintenance section/shop calibration program, to include test, measurement, and diagnostic equipment (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 standing operating procedures (SOPs). This task can be performed in a field or garrison environment.

Standards: Maintain 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. Review the section/shop calibration listing for equipment due calibration on a monthly basis and update status of all calibration equipment still turned in to the calibration support unit.

Performance Steps

1. Identify all equipment listed on section/shop hand receipts that might require a calibration label.
   a. Test equipment.
   b. Equipment modules.
   c. Dummy loads.
   d. Voltage test probes.
   e. Radiation detection, indication, and computation (RADIAC) equipment.
   f. Motor pool equipment.
   g. Power supplies.
2. Determine which equipment identified was listed in TB 43-180.
   a. Equipment that requires calibration.
   b. Calibration not required (CNR) equipment.
3. Prepare DA Form 3758-R if any new equipment not listed in TB 43-180 required calibration.
4. Maintain a master listing for all calibrated items in the maintenance section/shop.
5. Schedule equipment for calibration
   a. Stagger like equipment, when possible, so that equipment is always available on site.
   b. Assign a higher priority for critical TMDE, when necessary.
   c. Schedule plug-in modules and accessories for calibration with the major piece of equipment.
   d. Review signature cards and orders, as required locally, to update customer files and for the first appointment.
6. Prepare CNR labels for remaining equipment, as required.
7. Turn in/pick up equipment from the calibration facility.
   a. Turn in equipment with a minimum of accessories and covers.
   b. Obtain signed and dated receipt for equipment.
   c. Inspect equipment for damage and accessories before signing.
   d. Obtain calibration listings when available.
8. Update calibration listing.
   a. Verify calibration due dates.
   b. Delete entries.
   c. Add entries.
   d. correct serial number, calibration date, and due date errors.

Performance Steps

9. Maintain a temporary storage area for calibrate before use (CBU) equipment.
    a. Identify CBU equipment as appropriate.
    b. Identify a limited access storage area.
    c. Prepare DA Label 80 for CBU.
    d. Update calibration listing for CBU items.
    e. Store equipment until required.
    f. Submit equipment for calibration prior to use.

Evaluation Preparation: Setup: Select one of the maintenance shop/section within the company hand receipt that contents test, measurement, and diagnostic equipment (TMDE).

Brief Soldier: Tell the Soldiers they are going to be evaluated on how they review the company's master listing of all calibration items and selected maintenance section/shop hand receipt for calibration equipment listed. They must verify entries, equipment for correct serial numbers, calibration due dates and update company calibration list with new and turned-in equipment on the selected shop/section hand receipt due calibration.

Performance Measures	**GO**	**NO-GO**
1. Identified all equipment listed on section/shop hand receipts that might require a calibration label.	____	____
2. Determined which equipment identified was listed in TB 43-180.	____	____
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.	____	____
6. Prepared CNR labels for remaining equipment, as required.	____	____
7. Turned in/picked up equipment from the calibration facility.	____	____
8. Updated calibration listing.	____	____
9. Maintained a temporary storage area for calibrate before use (CBU) equipment.	____	____

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	**Related**
DA FORM 3758-R	DA PAM 750-3
DA LABEL 80	
LOCAL SOP	
TB 43-180	
TB 750-25	

Write a Standing Operating Procedure (SOP)

093-SSG-3011

Conditions: In a contemporary operational environment (COE), given the unit's old SOP, Army regulation (AR) 750-1, Department of the Army (DA) Pamphlet 600-67, DA Pamphlet 750-3, Field Manual (FM) 4-30.3, FM 5-0, and Training Circular (TC) 43-4. This task can be performed in a field or garrison environment.

Standards: Write a new SOP that is reviewed and approved by the supervisor/commander. Implement all recommended changes.

Performance Steps

1. Develop a basic SOP format to ensure it meets organization/element 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. Include guidance in the SOP on the following as they pertain 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. Chemical, biological, radiological, nuclear (CBRN) warfare.
   l. Defense against nuclear attack.
   m. Logistics.
   n. Motor pool operations.
   o. Motor movement and traffic control.
   p. Tactical operations.
3. Ensure that all references used are current.
4. Staff the draft through the supervisor/commander.
5. Implement any approved SOP changes.
6. Obtain supervisor/commander signature on final version of SOP.

Performance Measures	GO	NO-GO
1. Developed a basic SOP format to ensure it met organization/element specific needs and/or requirements for the maintenance facility.	____	____
2. Included guidance in the SOP on the following as they pertained only to the maintenance facility.	____	____
3. Ensured that all references used were current.	____	____
4. Staffed the draft through the supervisor/commander.	____	____
5. Implemented any approved SOP changes.	____	____
6. Obtained supervisor/commander signature on final version of 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	Related
AR 750-1	
DA PAM 600-67	
DA PAM 750-3	
FM 4-30.3	
FM 5-0	
TC 43-4	

Maintain Property Accountability

093-SSG-3013

Conditions: In a contemporary operational environment (COE), perform this task given a quarterly review of all hand receipts with hand receipt holders in the maintenance section/shop, issued new equipment, and tagged unserviceable equipment for turn-in, Army regulation (AR) 25-400-2, AR 710-2, Department of the Army (DA) Form 2062 (Hand Receipt/Annex Number), DA Pamphlet 710-2-1, hand receipts, applicable equipment, and applicable technical manuals (TMs). This task can be performed in a field or garrison environment.

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

Performance Steps

1. Notify hand receipt holders of quarterly inventory.
2. Review file copies of all hand receipts and signature cards for each maintenance section/shop.
3. Assembly all new equipment to be issued out into separate groups for issuing to hand receipt holders during the quarterly inventory.
4. Issue new equipment to hand receipt holders before inventorying.
5. Inventory hand receipts.
6. Update each hand receipt holder's equipment shortage list, as required.
7. Ensure that only authorized personnel on the hand receipt holder signature card signs the hand receipt.
8. Ensure that all forms were filled out correctly.
9. File hand receipts in appropriate hand receipt holder files.

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

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

Related

Assess Battlefield Damage

093-SSG-3014

Conditions: In a contemporary operational environment (COE), supervise the performance of an organizational maintenance team or a field maintenance support team (MST) performing battlefield assessment. Given a disabled vehicle or equipment; repairers to assess the equipment; applicable technical manuals (TMs) -10, -20, -30, repair parts manuals, and tool kits; Department of the Army (DA) Form 2404 (Equipment Inspection and Maintenance Worksheet) or DA Form 5988-E (Equipment Inspection Maintenance Worksheet [EGA]), DA Form 2407 (Maintenance Request) or DA Form 5990-E (Maintenance Request [EGA]), DA Pamphlet 750-8, DA Pamphlet 738-751, Department of Defense (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 (Reparable) Label - Materiel), Field Manual (FM) 4-30.3, and FM 4-30.31. This task can be performed in a field or garrison environment.

Standards: Supervise the organizational maintenance team or direct support (DS) 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. Complete all required paperwork according to DA Pamphlet 750-8, DA Pamphlet 738-751, FM 4-30.3, and FM 4-30.31.

Performance Steps

1. Brief the organizational maintenance team or DS MST on the upcoming mission to assess battlefield damage (see FM 4-30.3).
    a. Identify point of contact at unit/site.
    b. Identify the equipment to be assessed for battlefield damage.
    c. Identify the equipment needed for the upcoming mission.
    d. Explain logistics support.
    e. Plan primary and secondary routes to unit.
    f. Ensure team receives a copy of supported units' radio frequencies and call signs.
2. Monitor assigned personnel to the team according to their qualifications and availability to meet the mission needs.
3. Arrange for transportation to the site.
4. Ensure that the proper battlefield assessment procedures are followed.
    a. Review the operator/crew assessment and the safety checks made.
    b. Interview the operator/crew, if available.
    c. Conduct visual inspection.
    d. Perform self-test.
    e. Test equipment with the organizational/DS maintenance equipment.
5. Ensure the MST provides technical assistance to the organizational maintenance team as required.
6. Ensure the MST prioritizes repairs according to battlefield damage time guidelines.
7. Ensure that all required maintenance forms are completed in accordance with DA Pamphlet 750-8 and DA Pamphlet 738-751.
    a. DA Form 2404 or DA Form 5988-E.
    b. DA Form 2407 or DA Form 5990-E.
    c. DD Form 1577.
    d. DD Form 1577-1.
    e. DD Form 1577-2.
    f. DD Form 1577-3.
8. Ensure a system assessment summary is completed and submitted properly.

Performance Measures	GO	NO-GO
1. Briefed the organizational maintenance team or DS MST on the upcoming mission to assess battlefield damage.	____	____
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.	____	____
5. Ensured the MST provided technical assistance to the organizational maintenance team, as required.	____	____
6. Ensured the MST prioritized repairs according to battlefield damage time guidelines.	____	____
7. Ensured that all required maintenance forms were filled out correctly in accordance with DA Pamphlet 750-8 and DA Pamphlet 738-751.	____	____
8. Ensured a system assessment summary was completed correctly and submitted.	____	____

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 2404
DA FORM 2407
DA FORM 5988-E
DA FORM 5990-E
DA PAM 738-751
DA PAM 750-8
DD FORM 1577
DD FORM 1577-1
DD FORM 1577-2
DD FORM 1577-3
FM 4-30.3
FM 4-30.31

Related
TM 750-245-4

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

Conditions: In a contemporary operational environment (COE), conduct this task during the normal performance of your daily duties within an electronics/avionics maintenance shop. Manage demand supported repair parts for an electronics/avionics maintenance shop given Army regulation (AR) 710-2, Department of the Army (DA) Pamphlet 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 Federal Logistics (FEDLOG) discs, unit's initial mandatory parts list (IMPL), unit's prescribed load list (PLL), and technical parts manuals. This task can be performed in a field or garrison environment.

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

Performance Steps

1. Review the unit's PLL for electronics/avionics maintenance shop's repair parts.
2. Verify that the electronics/avionics shop's repair parts qualify to be on the PLL list.
3. Review demand supported unit maintenance repair parts documents and ensure they meet the following:
   a. Three demands made within the control period of 180 days for Active Army.
   b. Parts were essential and had a maintenance use code of "O" (except for non-tactical telecommunications systems, air traffic control, or lifesaving systems).
4. Review non-demand supported unit maintenance repair parts documents and ensure they meet the following:
   a. Approval by the first general officer staff level in the chain of command required in order to stock.
   b. Parts essential, with a maintenance use code of "O" (except for non-tactical telecommunications systems, air traffic control, or lifesaving systems).
5. Review the initial stockage of repair parts for newly introduced end items as identified by the Support List Allowance Card (SLAC) deck.
   a. The stockage level will not be reduced the first year.
   b. If the end item is under warranty, the first year (as stipulated above) will begin upon expiration of warranty.
6. Review the mandatory stockage of repair parts as identified in the IMPL.

Performance Measures	GO	NO-GO
1. Reviewed the unit's 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:	____	____
4. Reviewed non-demand supported unit maintenance repair parts documents and ensured they met the following:	____	____
5. Reviewed the initial stockage of repair parts for newly introduced end items as identified by the SLAC deck.	____	____
6. Reviewed the mandatory stockage of repair parts as identified in the IMPL.	____	____

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	Related
AR 710-2	FM 4-30.3
DA FORM 2063-R	
DA FORM 2064	
DA FORM 3318	
DA PAM 710-2-1	
FEDLOG	

Monitor Bench Stock Operations

093-SSG-3016

Conditions: In a contemporary operational environment (COE), perform this task given Army regulation (AR) 710-2, Department of the Army (DA) Pamphlet 710-2-2, and a copy of Federal Logistics (FEDLOG) discs. This task can be performed in a field or garrison environment.

Standards: Maintain bench stock in accordance with AR 710-2 and DA Pamphlet 710-2-2.

Performance Steps

1. Ensure that the bench stock items are made up of low-cost expendable items.
2. Ensure the bench stock is stored near the work area.
3. Ensure that bench stock replenishment tags and lists are maintain with the bench stock.
4. Ensure that bench stock orders are on a prescribed schedule or as needed.
5. Ensure that the bench stock items are ordered under the correct urgency of need designator (UND).
6. Review the bench stock items list semiannually.

Performance Measures	**GO**	**NO-GO**
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 urgency of need designator (UND).	____	____
6. Ensured that the bench stock was reviewed semiannually.	____	____

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

Monitor Shop Stock Operations

093-SSG-3017

Conditions: In a contemporary operational environment (COE), perform this task given a current copy of the shop stock list, Army regulation AR 710-2, Department of the Army (DA) Pamphlet 710-2-2, and a copy of Federal Logistics (FEDLOG) discs. This task can be performed in a field or garrison environment.

Standards: Maintain the shop stock according to AR 710-2 and DA Pamphlet 710-2-2.

Performance Steps

1. Ensure all repair parts and consumables listed on the shop stock meet the criteria listed in AR 710-2 and DA Pamphlet 710-2-2.
2. Ensure each item is demand supported.
3. Ensure each item's stockage level is developed in accordance with DA Pamphlet 710-2-2.
4. Ensure that excess stocks are turned in within 10 days of review.
5. Ensure that replenishment of stocks' is based on the reorder point (ROP).
6. Ensure a temporary hand-receipted is issued for the controlled cryptographic item (CCI) repair parts required by the communications security (COMSEC) maintenance activities for diagnostic purpose.
7. Ensure an inventory of the shop stock items are scheduled for the review during the correct reviewing period.
8. Review the Supply Support Activity (SSA) shop stock list to see if it was signed by the unit commander.

Performance Measures	**GO**	**NO-GO**
1. Ensured repair parts and consumables listed on the shop stock met the criteria listed in AR 710-2 and DA Pamphlet 710-2-2.	____	____
2. Ensured each item was demand supported.	____	____
3. Ensured each item's stockage levels were developed in accordance with DA Pamphlet 710-2-2.	____	____
4. Ensured excess stocks were turned in within 10 days of review.	____	____
5. Ensured replenishment of stock was based on the reorder point (ROP).	____	____
6. Ensured a temporary hand-receipted was issued for the controlled cryptographic item (CCI) repair parts required by the communications security (COMSEC) maintenance activities for diagnostic purpose.	____	____
7. Ensured an inventory of the shop stock items were scheduled for the review during the correct reviewing period.	____	____
8. Reviewed the Supply Support Activity (SSA) shop stock list to see if it was signed by the unit commander.	____	____

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	Related
AR 710-2	
DA PAM 710-2-2	
FEDLOG	

Inspect Maintenance Support Team Operations

093-SSG-3019

Conditions: In a contemporary operational environment (COE), perform this task given the necessary personnel to perform an electronics/avionics maintenance support team (MST) operation, Department of the Army (DA) Pamphlet 611-21, DA Pamphlet 750-8, DA Pamphlet 738-751, Field Manual (FM) 3-25.26, and FM 4-30.3. This task can be performed in a field or garrison environment.

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

Performance Steps

1. Monitor assigned personnel according to their qualifications and availability.
2. Arrange for transportation to the site.
3. Brief the support team on mission requirements.
   a. Identify point of contact at unit.
   b. Identify equipment needed for the support mission.
   c. Explain logistics support.
   d. Plan primary and secondary routes to unit.
   e. Ensure team received a copy of supported units' radio frequencies and call signs.
4. Provide technical assistance to the support team as required.
5. Ensure that all maintenance forms are filled out correctly.

Performance Measures	**GO**	**NO-GO**
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.	____	____
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 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	**Related**
DA PAM 611-21	
DA PAM 738-751	
DA PAM 750-8	
FM 3-25.26	
FM 4-30.3	

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 electronics/avionics maintenance facility. In a contemporary operational environment (COE), you must inspect and manage all of the maintenance forms and records used in reporting the maintenance status of equipment repaired in the maintenance facility. If needed, the following forms, records, and publications will be available for each piece of equipment job-ordered: Department of the Army (DA) Form 2402 (Maintenance 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), Department of Defense (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), DA Pamphlet 750-8, and DA Pamphlet 738-751.

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

Performance Steps

1. Locate closed-out and active job order packets within the electronics/avionics maintenance facility.
2. Match all job-ordered equipment serial numbers with closed-out and active job packets within the electronics/avionics maintenance facility.
3. Ensure that all required forms and records are inside the job order packets.
4. Verify that all forms and records within the job packets are properly completed.
5. Ensure that all listed discrepancies been corrected.
6. Ensure that all forms and reports are distributed or filed in accordance with DA pamphlets and Army regulations.

Performance Measures	**GO**	**NO-GO**
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 DA pamphlets and Army regulations.	____	____

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 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 738-751
DA PAM 750-8
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

FM 4-30.3
TM 38-L09-11

Review SAMS Reports

093-SSG-3021

Conditions: In a contemporary operational environment (COE), perform this task given Standard Army Maintenance System (SAMS) installed, completed set of required SAMS reports and forms, Automated Information System Manual (AISM) 25-L21-AHN-ZZZ-EM, AISM 25-L26-AHO-ZZZ-EM, Department of the Army (DA) Pamphlet 750-8, DA Pamphlet 738-751, and Field Manual (FM) 4-30.3.

NOTE: This task may be performed in a chemical, biological, radiological, and nuclear (CBRN) environment.

Standards: Review all required SAMS-1 reports and forms and correct discrepancies according to AISM 25-L21-AHN-ZZZ-EM and DA Pamphlet 750-8 or DA Pamphlet 738-751. File all reports properly and forward copies, as required.

Performance Steps

1. Ensure that the electronics/avionics maintenance operations are using all of the required SAMS-1 reports and forms.
2. Review all of the new copies of all SAMS-1 reports and forms needed to run the electronics/avionics maintenance operations.
3. Compare previous and newly printed SAMS-1 reports and forms for discrepancies.
4. Review the new SAMS-1 reports and forms for discrepancies.
5. Correct all identified discrepancies.
6. Ensure that all SAMS-1 reports and forms are distributed or filed in accordance with Army regulations.

Performance Measures	**GO**	**NO-GO**
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. Corrected all identified discrepancies.	____	____
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 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	Related
AISM 25-L21-AHN-ZZZ-EM	
AISM 25-L26-AHO-ZZZ-EM	
DA PAM 738-751	
DA PAM 750-8	
FM 4-30.3	

Skill Level 4

Subject Area 5: Maintenance Management I

Provide Liaison to Supported Units

093-SFC-4113

Conditions: In a contemporary operational environment (COE), given Army regulation (AR) 750-1, Department of the Army (DA) Pamphlet 738-750, Field Manual (FM) 4-30.3, and direct support (DS) maintenance standing operating procedure (SOP). This task can be performed in a field or garrison environment.

Standards: Provided liaison support in accordance with FM 4-30.3 and SOP.

Performance Steps

1. Issue external SOP to supported unit.
2. Coordinate on-site maintenance training.
3. Identify and coordinate required support maintenance.
   a. Scheduled.
   b. Unscheduled.
   c. Special (Command Inspection Program (CIP), gunnery, training centers, and so forth).
4. Provide supported unit updated status of open work requests.

Performance Measures	**GO**	**NO-GO**
1. Issued external SOP to supported unit.	____	____
2. Coordinated on-site maintenance training.	____	____
3. Identified and coordinated required support maintenance.	____	____
4. Provided supported unit updated status of open work requests.	____	____

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	**Related**
AR 750-1	
DA PAM 750-8	
FM 4-30.3	
LOCAL SOP	

Manage Shop Personnel Actions
093-SFC-4108

Conditions: In a contemporary operational environment (COE), given pencil or pen, paper, local standing operating procedure (SOP), Army regulation (AR) 25-50, AR 220-45, AR 600-8-10, AR 600-8-19, AR 600-8-22, AR 623-3, AR 635-200, DA Form 638 (Recommendation for Award), and Field Manual (FM) 6-22.

Standards: Managed administrative and personnel actions impacting on shop personnel in accordance with applicable references.

Performance Steps

1. Review recommendation for advancement/promotion to determine eligibility.
2. Review request for leave/pass to maintain proper manning level.
3. Review an award recommendation for errors.
4. Review entries on personnel evaluations for errors.
5. Review entries on counseling forms for errors.
6. Identify requirements for administrative separations.

Performance Measures	GO	NO-GO
1. Reviewed recommendation for advancement/promotion to determine eligibility. (AR 600-8-19)	____	____
2. Reviewed request for leave/pass to maintain proper manning level. (AR 600-8-10)	____	____
3. Reviewed an award recommendation for errors. (AR 600-8-22)	____	____
4. Reviewed entries on personnel evaluations for errors. (AR 623-3)	____	____
5. Reviewed entries on counseling forms for errors. (FM 6-22)	____	____
6. Identified requirements for administrative separations. (AR 635-200)	____	____

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	Related
AR 25-50	
AR 220-45	
AR 600-8-10	
AR 600-8-19	
AR 600-8-22	
AR 623-3	
AR 635-200	
DA FORM 638	
FM 6-22	
LOCAL SOP	

Review SAMS-2 Reports

093-SFC-4109

Conditions: In a contemporary operational environment (COE), given commander's intent, local standing operating procedure (SOP), Standard Army Maintenance System Level 2 (SAMS-2) end user manual, SAMS-2 reports, Automated Information System Manual (AISM) 25-L26-AHO-ZZZ-EM, and Training Circular (TC) 43-4. This task can be performed in a field or garrison environment.

Standards: Determined if maintenance performance was within unit's acceptable range of performance.

NOTE: Unit's acceptable range of performance can be found in the unit SOP and/or commander's intent.

Performance Steps

1. Identify reportable and maintenance significant items.
2. Identify work orders that were more than 30 days old.
3. Identify maintenance turnaround time in days by unit/activity.
4. Identify operational readiness float (ORF) monthly usage and accumulation.

Performance Measures	**GO**	**NO-GO**
1. Identified reportable and maintenance significant items.	____	____
2. Identified work orders that were more than 30 days old.	____	____
3. Identified maintenance turnaround time in days by unit/activity.	____	____
4. Identified operational readiness float (ORF) monthly usage and accumulation.	____	____

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	**Related**
AISM 25-L26-AHO-ZZZ-EM	AISM 25-L21-AHN-ZZZ-EM
LOCAL SOP	
TC 43-4	

Conduct Site Reconnaissance

093-SFC-4110

Conditions: In a contemporary operational environment (COE), given pencil or pen, paper, lensatic compass, protractor, local standing operating procedure (SOP), Field Manual (FM) 4-30.3, operations order/operations plan (OPORD/OPLAN), maps of the surrounding area, stakes or other marking material, and a vehicle. This task can be performed in a field environment.

Standards: Selected a satisfactory site and marked it in accordance with FM 4-30.3, local SOP, and applicable references.

Performance Steps

1. Review site reconnaissance requirements.
   a. Specific requirements for the site are contained in the mission OPORD/OPLAN. Ensure you take note of personnel, equipment, and logistic requirements when preparing for site selection.
   b. Review local SOP for unit-specific requirements for the site.
2. Select potential sites by map reconnaissance. Consider the following areas as a minimum:
   a. Observation and fields of fire.
   b. Concealment and cover.
   c. Obstacles.
   d. Key terrain.
   e. Avenues of approach.
3. Evaluate potential sites by physical reconnaissance. Evaluation of potential sites must include at a minimum:
   a. Accessibility. Can the site be reached regardless of the weather or time of year? What must travel the roads/paths? What is the condition of these roads/paths?
   b. Terrain. Is the site relatively flat and well drained?
   c. Camouflage/concealment. Does the potential site provide adequate camouflage and concealment?
   d. Survivability. Can the potential site be adequately defended in case of attack?
   e. Technical suitability. Is the site location within the range, capabilities, and limitations of the equipment to be deployed?
4. Review marking requirements. Once the best site is selected, the site will be marked for location of equipment and control points. Mark the site in accordance with local SOP and availability of materials.

Performance Measures	**GO**	**NO-GO**
1. Reviewed site reconnaissance requirements.	____	____
2. Selected potential sites by map reconnaissance.	____	____
3. Evaluated potential sites by physical reconnaissance.	____	____
4. Reviewed marking requirements.	____	____

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	**Related**
FM 4-30.3	
LOCAL SOP	

Coordinate Activities between Production Control and Supply Support Activity

093-SFC-4111

Conditions: In a contemporary operational environment (COE), given Army regulation (AR) 710-2, Department of the Army (DA) Pamphlet 710-2-1, DA Pamphlet 710-2-2, and Field Manual (FM) 4-30.3. This task can be performed in a field or garrison environment.

Standards: Accounted for repair parts in accordance with references listed above.

Performance Steps

1. Reconcile the movement of parts between production control and supply support activity.
2. Reconcile the movement of repairable exchange (RX) items between production control and RX.
3. Reconcile reports from production control and shop supply.

Performance Measures	**GO**	**NO-GO**
1. Reconciled the movement of parts between production control and supply support activity.	____	____
2. Reconciled the movement of repairable exchange (RX) items between production control and RX.	____	____
3. Reconciled reports from production control and shop supply.	____	____

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	**Related**
AR 710-2	
DA PAM 710-2-1	
DA PAM 710-2-2	
FM 4-30.3	

Manage Shop Supply Operations
093-SFC-4112

Conditions: In a contemporary operational environment (COE), given Army regulation (AR) 710-2, Department of the Army (DA) Pamphlet 710-2-1, DA Pamphlet 710-2-2, Field Manual (FM) 4-30.3, DA Form 2064 (Document Register for Supply Actions), and DA Form 3318 (Records of Demands-Title Insert).

Standards: Maintained shop supply in accordance with AR 710-2 and DA Pamphlet 710-2-2.

Performance Steps

1. Monitor shop stock operations.
2. Check the shop stock for the following:
   a. List of items stocked.
   b. Reorder point (ROP).
   c. Location.
3. Check the demand supported shop stock records for the number of records within the control period and other considerations.
4. Ensure that the demands on the DA Form 3318 and those listed on the DA Form 2064 matched.
5. Compare the physical location with the location listed on the DA Form 3318.

Performance Measures	GO	NO-GO
1. Monitored shop stock operations.	____	____
2. Checked the shop stock for the following:	____	____
3. Checked the demand supported shop stock records for the number of records within the control period and other considerations.	____	____
4. Ensured that the demands on the DA Form 3318 and those listed on the DA Form 2064 matched.	____	____
5. Compared the physical location with the location listed on the DA Form 3318.	____	____

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	Related
AR 710-2	DA PAM 750-8
DA FORM 2064	
DA FORM 3318	
DA PAM 710-2-1	
DA PAM 710-2-2	
FM 4-30.3	

Manage Operational Readiness Float (ORF) Transactions

093-SFC-4114

Conditions: In a contemporary operational environment (COE), given Army regulation (AR) 710-1, AR 710-2, AR 750-1, Department of the Army (DA) Pamphlet 710-2-2, DA Pamphlet 750-1, local standing operating procedure (SOP), maintenance records, operational readiness float (ORF) equipment, and applicable technical manuals (TMs). This task can be performed in a field or garrison environment.

Standards: Maintained and issued ORF equipment in accordance with required references.

Performance Steps

1. Maintain ORF equipment. (AR 750-1, AR 710-2)
   a. Ensure that ORF assets were maintained at 10/20 maintenance standard.
   b. Direct the repair of unserviceable ORF assets.
   c. Use highest appropriate priority designator for items being repaired for return to ORF stock.
   d. Ensure that appropriate service and maintenance forms were completed.
2. Coordinate transactions of ORF equipment. (AR 710-2, DA Pamphlet 710-2-2, SOP)
   a. Account for ORF assets per AR 710-2 and DA Pamphlet 710-2-2.
   b. Issue assets when priority designator and estimate repair time met established criteria.
   c. Ensure ORF items were exchanged on a one-for-one basis.
   d. Coordinate with supported unit, as required.
   e. Ensure that all supply and maintenance forms were completed.

Performance Measures	**GO**	**NO-GO**
1. Maintained ORF equipment. (AR 750-1, AR 710-2)	____	____
2. Coordinated transactions of ORF equipment. (AR 710-2, DA Pamphlet 710-2-2, 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	**Related**
AR 710-1	DA FORM 2404
AR 710-2	DA FORM 5990-E
AR 750-1	DA PAM 710-2-1
DA PAM 710-2-2	DA PAM 750-8
DA PAM 750-1	FM 4-30.3
LOCAL SOP	

Subject Area 6: Maintenance Management II

Update Standing Operating Procedure (SOP)
093-SFC-4102

Conditions: In a contemporary operational environment (COE), given local SOP, higher headquarters (HQ) SOP, pencil or paper, Army regulation (AR) 750-1, field manual (FM) 5-0, FM 4-30.3, commander's guidance, and unit mission. This task can be performed in a field or garrison environment.

Standards: The SOP supports unit mission. The SOP is also in compliance with applicable references and submitted for approval.

Performance Steps

1. Determine mission.
   a. Unit mission.
   b. Specified, implied, and essential tasks.
   c. Activities and procedures needed.
   d. Applicable references and directives.
   e. Applicable portions of higher HQ SOP.
   f. Commander's guidance.
2. Review references.
   a. Applicable references and directives.
   b. Higher HQ SOP.
   c. Mission statement, METL, ARTEP, current SOP.
   d. Techniques and procedures learned through experience.
3. Observe procedures in unit.
   a. Activities and procedures as they are performed in your unit.
   b. Took note of capabilities and constraints in your unit.
   c. For compliance with current policies and directives.
4. Compare observations with regulatory guidance.
   a. Observe activities and procedures for compliance with higher HQ SOP.
   b. Observe activities and procedures for compliance with current SOP.
   c. Current SOP with commander's intent.
5. Revise current SOP as needed.
   a. For inclusion of needed sections and paragraphs.
   b. Current SOP to comply with applicable references and directives.
   c. Standardize SOP with higher HQ SOP to facilitate cross-referencing and ease of use.
   d. For compliance with commander's guidance/intent.
6. Submit SOP for approval.
   a. Submit to appropriate authority for approval.
   b. Submit to appropriate authority for reproduction.

Performance Measures	GO	NO-GO
1. Determined mission.	____	____
2. Reviewed references.	____	____
3. Observed procedures in unit.	____	____
4. Compared observations with regulatory guidance.	____	____
5. Revised current SOP as needed.	____	____
6. Submitted SOP for approval.	____	____

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	Related
AR 750-1	DA PAM 600-67
FM 5-0	DA PAM 750-8
FM 4-30.3	TB 385-4
LOCAL SOP	TC 43-4

Manage a Shop Security Program
093-SFC-4101

Conditions: In a contemporary operational environment (COE), given local standing operating procedures (SOPs), pencil or pen, Army regulation (AR) 190-13, AR 190-51, AR 25-2, AR 380-40, AR 530-1, Field Manual (FM) 3-19.30, and technical bulletin (TB) 380-41. This task can be performed in a field or garrison environment.

Standards: Reviewed the shop security program and made required corrections in accordance with applicable references.

Performance Steps

1. Enforce physical security.
   a. Determine shop's mission essential or vulnerable areas (MEVAs). (AR 190-13, SOP)
   b. Determine minimum security standard. (AR 190-51)
   c. Identify physical and procedural measures in shop security program. (FM 3-19.30)
   d. Evaluate physical and procedural measures needed to maintain minimum security standard. (FM 3-19.30)
   e. Implement needed changes to shop security program. (AR 190-51)
2. Enforce information system security (INFOSEC). (AR 25-2, SOP)
   a. Identify need for INFOSEC.
   b. Identify threat to information systems.
   c. Identify malicious logic and how it enters systems.
   d. Identify differences in handling classified and unclassified information.
   e. Identify roles and responsibilities.
3. Implement operations security (OPSEC) measures. (AR 530-1, SOP)
   a. Ensure compliance with regulatory guidance.
   b. Demonstrate knowledge of OPSEC principles.

Performance Measures	**GO**	**NO-GO**
1. Enforced physical security.	____	____
2. Enforced information system security (INFOSEC).	____	____
3. Implemented operations security (OPSEC) measures.	____	____

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	**Related**
AR 25-2	DA PAM 190-51
AR 190-13	FM 4-30.3
AR 190-51	TB 380-41
AR 380-40	
AR 530-1	
FM 3-19.30	
LOCAL SOP	

Prepare Input to Materiel Condition Status Report

093-SFC-4103

Conditions: In a contemporary operational environment (COE), given Army regulation (AR) 220-1, AR 700-138, Department of the Army (DA) Form 2406 (Materiel Condition Status Report), DA Form 3266-1 (Army Missile Materiel Readiness Report), DA Form 3266-2 (Missile Material Condition Status Report Worksheet), DA Pamphlet 738-750, paper and pencil or pen. You also have access to data from DA Form 5990-E (Maintenance Request [EGA]) or equivalent (Department of Defense [DD] Form 314 (Preventive Maintenance Schedule and Record) and DA Form 2407 (Maintenance Request)).

Standards: Prepared the Materiel Condition Status Report (MCSR) correctly using AR 700-138.

Performance Steps

1. Prepare input to DA Form 2406.
    a. Complete blocks 1 through 8. (Refer to AR 700-138.)
    b. Complete columns 9a through 9e(3)(b). (Refer to AR 700-138 and maintenance forms.)
    c. Complete columns 9f(l) through 9f(5), as locally prescribed.
    d. Complete block 10, as locally required.
    e. Complete block 11 (REMARKS), as required.
    f. Submit for commander's signature.
    g. Complete block 12(b).

NOTE: Ensure the date the report is signed is entered.

2. Prepare input to DA Form 3266-1.
    a. Enter applicable system operational data in Part 1. (Refer to AR 700-138.)
    b. Enter data on missile equipment that was non-mission capable (NMC) during the reporting period in Part 2.
    c. Enter data on missile equipment that was NMC at the close of the reporting period in Part 3.
    d. Review the form and correct any errors.
    e. Submit the completed DA Form 3266-1 to the correct agency.

NOTE: This step is only performed in units performing missile maintenance.

Performance Measures	**GO**	**NO-GO**
1. Prepared input to DA Form 2406.	____	____
2. Prepared input to DA Form 3266-1.	____	____

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	**Related**
AR 220-1	
AR 700-138	
DA FORM 2406	
DA FORM 2407	
DA FORM 3266-1	
DA FORM 3266-2	
DA FORM 5990-E	
DA PAM 750-8	
DD FORM 314	

Manage SAMS-1 System Administration

093-SFC-4104

Conditions: In a contemporary operational environment (COE), given Standard Army Maintenance System-Level 1 (SAMS-1) end user manual, local standing operating procedure (SOP), and Training Circular (TC) 43-4. This task can be performed in a field or garrison environment.

Standards: Reviewed SAMS-1 administrative procedures for compliance with SAMS-1 end user manual and took required corrective action.

Performance Steps

1. Ensure the system access roster is current.
2. Identify the SAMS-1 system senior operator.
3. Identify SAMS-1 problem reporting procedures.
4. Identify SAMS-1 data backup procedures.
5. Ensure the shop/personnel database is current.

Performance Measures	**GO**	**NO-GO**
1. Ensured the system access roster was current.	____	____
2. Identified the SAMS-1 system senior operator.	____	____
3. Identified SAMS-1 problem reporting procedures.	____	____
4. Identified SAMS-1 data backup procedures.	____	____
5. Ensured the shop/personnel database was current.	____	____

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	**Related**
AISM 25-L21-AHN-ZZZ-EM	AR 25-2
LOCAL SOP	DA PAM 25-1-1
TC 43-4	DA PAM 750-8

Manage Hand Receipt Functions

093-SFC-4105

Conditions: In a contemporary operational environment (COE), given local standing operating procedure (SOP), pencil and paper, Army regulation (AR) 25-400-2, AR 735-5, Department of the Army (DA) Form 2062 (Hand Receipt/Annex Number), DA Form 2765-1 (Request for Issue or Turn-In), DA Form 3161 (Request for Issue or Turn-In), DA Pamphlet 25-30, DA Pamphlet 25-380-2, DA Pamphlet 710-2-1, Technical Bulletin (TB) 380-41, and commander's guidance.

Standards: Attained 100 percent accountability in accordance with DA Pamphlet 710-2-1.

Performance Steps

1. Prepare for inventory.
    a. Review the hand receipt (HR) before beginning the inventory to see type of items to be inventoried.

NOTE: If unfamiliar with the type of equipment, select personnel to assist in the inventory. Check with the commander/supervisor for any special instructions before starting the inventory.

    b. Review DA Pamphlet 25-30 to ensure the most current supply catalogs, component lists, technical manuals, and other related publications are used during the inventory.

NOTE: In the event the most current publications are not on hand, they will be placed on order. The inventory will be conducted with the references on hand, and a memorandum will be prepared stating the procedures used for the inventory, if applicable.

    c. Verify facilities and spaces are available to conduct the inventory.
    d. Notify sub-hand receipt holders of when and how the inventory will be conducted.

2. Conduct inventory.
    a. Check all items to make sure their national stock number (NSN), model, and their description on the HR match. Make a list of any differences.
    b. Visually check the condition of the property. Make a list of any damaged equipment.
    c. Report damaged equipment to unit maintenance personnel for repair.
    d. Ensure the on-hand quantity and quantity on the HR match. Make a list of any overages and shortages.
    e. Use the proper technical manual (TM) or supply catalog (SC) to identify components of end items. Make a list of any overages and shortages.

NOTE: Serial numbers on the HR should match those on the item. All open maintenance requests must be checked with the supporting maintenance facility.

    f. Report any discrepancies to the accountable officer.

3. Conduct post inventory procedures.
    a. Inform the commander of inventory results.
    b. Provide copy of all discrepancies discovered during the inventory to accountable officer.
    c. Make sure that component shortages are listed on HR shortage annexes.
    d. Request shortages not already on order.
    e. Turn in overages according to local procedures.

4. Issue sub-hand receipt for property to user.
    a. Appoint sub-hand receipt users.
    b. Prepare separate HR for installation and organizational property.
    c. Prepare DA Form 2062 or equivalent in two copies to issue sub-hand receipt for property.

NOTE: The person transferring the property keeps the original; the copy is provided to the person receiving the property.

5. File HR and sub-hand receipt according to AR 25-400-2.

Performance Steps

6. Maintain HR and files.
    a. Regularly inventory property in accordance with applicable standard (for example, monthly, quarterly).
    b. Keep all copies of HR and sub-hand receipts current.

NOTE: Upon receipt of the current publication, conduct an inventory to determine any overages or shortages. Overages will be turned in. Shortages will be accounted for in accordance with DA Pamphlet 710-2-1 or AR 735-5, as appropriate. Shortage of controlled cryptographic items (CCI) or communications security (COMSEC) items also requires the initiation of an insecurity report per DA Pamphlet 25-380-2 or TB 380-41.

    c. Submit requests for issue to replace any shortages.

Performance Measures	**GO**	**NO-GO**
1. Prepared for inventory.	____	____
2. Conducted inventory.	____	____
3. Conducted post-inventory procedures.	____	____
4. Issued sub-hand receipt for property to user.	____	____
5. Filed HR and sub-hand receipt according to AR 25-400-2.	____	____
6. Maintained HR and files.	____	____

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	**Related**
AR 25-400-2	AR 710-2
AR 735-5	
DA FORM 2062	
DA FORM 2765-1	
DA FORM 3161	
DA PAM 25-30	
DA PAM 25-380-2	
DA PAM 710-2-1	
LOCAL SOP	
TB 380-41	

Manage Maintenance Shop Operations

093-SFC-4106

Conditions: In a contemporary operational environment (COE), given local standing operating procedure (SOP), Army regulation (AR) 710-2, Department of the Army (DA) Pamphlet 710-2-2, DA Pamphlet 750-8, Field Manual (FM) 4-30.3, commander's guidance, and unit mission. This task can be performed in a field or garrison environment.

Standards: Accomplished all required maintenance tasks in accordance with procedures in required references.

Performance Steps

1. Review maintenance control procedures.
    a. Assign work to shop sections to keep all sections working at optimum capacity.
    b. Screen maintenance requests to determine appropriate level of maintenance.

NOTE: Screening may show that unit level maintenance has not been done or that evacuation of an item is needed.

    c. Keep abreast of the status and quantity of work in each section to prevent overload.
    d. Aggressively pursue repair parts that are not readily available.

2. Review production control procedures.

NOTE: Production methods in a maintenance unit include the on-site, bay shop, bench shop, and production line methods.

    a. Select the most efficient method of repairing based on available equipment, facilities, and time.
    b. Ensure work order status files are maintained.

3. Review quality control procedures.

NOTE: Accurate initial, in-process, and final inspections are vital in maintaining efficient shop operations and ensuring quality repairs.

    a. Initial inspection is used to determine tools, personnel, parts, cost, and so on, needed to accomplish repair.
    b. Shop supervisory personnel conduct in-process inspections to ensure work is being performed properly.
    c. Final inspections verify the adequacy of repairs and require a technical inspection of the item.
    d. Ensure production control procedures are current and valid.

4. Review work flow process.
    a. Assign work to the appropriate section and repair person based on military occupational specialty (MOS), technical ability, certification and/or training.
    b. Observe work flow to ensure item is assigned to appropriate section and repair person.

5. Review job evacuation procedures.
    a. Evacuation of backlogged maintenance requests may allow equipment to be repaired and returned to the using unit in a timelier manner.
    b. Determine evacuation decision based on initial inspection, current or projected workload, availability of tools/personnel, and required level of repair.

6. Review maintenance management tools and techniques.

NOTE: The Standard Army Maintenance System (SAMS) is the primary tool used for maintenance management.

    a. Analysis of maintenance printouts will reveal trends/situations that require action.
    b. Examples of problems to watch out for include significant increases in shop input, excessive number of jobs awaiting parts, and low production.
    c. Review submission of daily man-hour accounting and/or status changes as appropriate.

Performance Steps

7. Review operational readiness float (ORF) procedures.

NOTE: ORF is a quantity of selected items authorized for stockage at maintenance facilities to extend their capabilities to respond to the material readiness requirements of supported units.

a. Provide supported activities with serviceable replacements from ORF when like items of equipment cannot be repaired or modified in time to meet operational requirements.
b. Ensure procedures are current and valid.

Performance Measures	**GO**	**NO-GO**
1. Reviewed maintenance control procedures.	____	____
2. Reviewed production control procedures.	____	____
3. Reviewed quality control procedures.	____	____
4. Reviewed work flow process.	____	____
5. Reviewed job evacuation procedures.	____	____
6. Reviewed maintenance management tools and techniques.	____	____
7. Reviewed operational readiness float (ORF) procedures.	____	____

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	**Related**
AISM 25-L21-AHN-ZZZ-EM	AR 750-1
AR 710-2	DA PAM 710-2-1
DA PAM 710-2-2	DA PAM 750-1
DA PAM 750-8	
FM 4-30.3	
LOCAL SOP	
TC 43-4	

Manage Logistics Support

093-SFC-4107

Conditions: In a contemporary operational environment (COE), given local standing operating procedure (SOP), Army regulation (AR) 750-1, Department of the Army (DA) Pamphlet 738-750, and Field Manual (FM) 4-30.3. You also have access to the operations order (OPORD), Materiel Condition Status Report (MCSR), shop stock, bench stock, and the Standard Army Maintenance System (SAMS) reports. This task can be performed in a field or garrison environment.

Standards: Planned logistics support for maintenance operations that anticipates requirements for personnel, equipment, repair parts, and the effective use of these resources.

Performance Steps

1. Identify support requirements.
    a. Review appropriate documents to identify requirements. These may include local SOPs, OPORDs, and others.
    b. Determine information, such as type and number of supported units and type and number of supported equipment.
    c. Review battle damage assessment and repair (BDAR) and MCSR if available.
2. Identify available resources.
    a. Identify the resources on hand after support requirements have been determined.
    b. Identify the resources already committed after support requirements have been determined.

NOTE: Assets to consider include personnel; parts; tools; test, measurement, and diagnostic equipment (TMDE); publications; and transport capabilities. Other assets to consider include operational readiness float (ORF), facilities, location of maintenance support teams (MSTs), unit maintenance collection points (UMCPs), maintenance collection points (MCPs), and recovery/evacuation capabilities.

3. Identify other considerations. Other considerations include: command priorities, environmental impact, maintenance workload, exchange/cannibalization policy, weather/terrain conditions, security, safety, certifications/training, tactical situation, and operating/operations tempo (OPTEMPO).
    a. Consider other intangibles when managing support.
    b. Consider the following when managing support (command priorities, environmental impact, maintenance workload, exchange/cannibalization policy, weather/terrain conditions, security, safety, certifications/training, tactical situation, and operating/operations tempo (OPTEMPO)).
4. Allocate resources.
    a. Allocate resources to provide needed support after considering all requirements, resources, and other considerations.
    b. Organize resources to provide needed support after considering all requirements, resources, and other considerations.

Performance Measures	**GO**	**NO-GO**
1. Identified support requirements.	____	____
2. Identified available resources.	____	____
3. Identified other considerations.	____	____
4. Allocated resources.	____	____

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

AR 750-1
DA PAM 750-8
FM 4-0
FM 4-30.3
LOCAL SOP
TB 385-4
TC 43-4

Related

Chapter 4

Duty Position Tasks

4-1. Military Occupational Specialty 94Y10. Performs march order and emplacement of the Base Shop Test Facility (BSTF), installs supported weapon system test program sets, initiates unit under test (UUT) procedures, isolates UUT/BSTF printed circuit board or component malfunctions, replaces defective parts/components and performs UUT/BSTF alignments and adjustments. Performs BSTF preventive maintenance checks and services (PMCS) and operational checks. Operates and performs PMCS on assigned vehicles and power generators.

4-2. Military Occupational Specialty 94Y20. Perform duties shown in preceding skill level. Supervises lower rank Soldiers and provides technical guidance to the Soldiers in the accomplishment of their duties. Installs BSTF equipment modifications, prepares maintenance and supply forms and records, and provides technical assistance for corrective maintenance procedures.

4-3. Military Occupational Specialty 94Y30. Perform duties shown in preceding skill levels. Establish workload and repair priorities. Recommend procedures for receipt, storage, inspection, testing and repair of items. Organizes and conducts on the job training (OJT) programs. Demonstrate proper maintenance and troubleshooting techniques. Determine faulty work practices. Prepare maintenance reports.

4-4. Military Occupational Specialty 94Y40. Supervises and coordinates sustainment level maintenance of Integrated Family of Test Equipment (IFTE) systems and associated trainers and test equipment. Supervise calibration of system associated electronic equipment. Implement quality control measures. Perform as maintenance quality assurance and quality control (QA/QC) inspector. Perform initial and final type checkouts and inspection of system items. Establishes and maintains maintenance records.

4-5. Additional Skill Identifiers. The following additional skill identifiers (ASIs) are associated with MOS 94Y:

- P5--Master Fitness Trainer.
- 1X--Green Belt in Lean Six Sigma (personnel only).
- 1Y--Black Belt in Lean Six Sigma (personnel only).
- 1Z--Master Black Belt in Lean Six Sigma (personnel only).
- 2A--Non-Lethal Weapons Trainer (personnel only).
- 2B--Air Assault (personnel only).
- 2S--Battle Staff Operations (SL 3 and above).
- 4A--Reclassification Training.
- 5W--Jumpmaster (personnel only).
- 6T--Military Auditor (Reserve Component personnel only).
- 8P--Competitive Parachutist (SLs 2, 3, and 4 personnel only).

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Appendix A

Sample DA Form 5164-R (Hands-On Evaluation)

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**,** that 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.

HANDS-ON EVALUATION For use of this form, see STP 11-25S14-SM-TG; the proponent agency is TRADOC		DATE 28 May 2008	
TASK TITLE Perform Manual Troubleshooting Procedures on the Electrical-Electronic Test Station, AN/USM-632 (V)		TASK NUMBER 093-94Y-1024	
ITEM a	PERFORMANCE STEP TITLE b	SCORE (Check One) PASS c	 FAIL d
1.	Follow all safety notes and special instructions	[X] P	[ ] F
2.	Perform manual troubleshooting procedures	[ ] P	[X] F
3.	Run system self-test to verify test station operability	[X] P	[ ] F
4.	Complete and turn in required maintenance forms	[X] P	[ ] F
		[ ] P	[ ] F
		[ ] P	[ ] P
		[ ] P	[ ] F
		[ ] P	[ ] F
		[ ] P	[ ] F
		[ ] P	[ ] F
		[ ] P	[ ] F
		[ ] P	[ ] F
		[ ] P	[ ] F
		[ ] P	[ ] F
EVALUATOR'S NAME SSG MIKE SHANNAHAN		UNIT	
SOLDIER'S NAME PFC JOHN ELWAY		STATUS [ ] GO	[X] NO GO

SAMPLE

DA FORM 5164-R, SEP 85 EDITION OF DEC 82 IS OBSOLETE APD V2.01

Appendix B

Sample DA Form 5165-R (Field Expedient Squad Book)

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.

FIELD EXPEDIENT SQUAD BOOK

For use of this form, see STP 10-92A10-SM-TG; the proponent agency is TRADOC.

SHEET 1 OF 3

USER APPLICATION

STP 21-1-SMCT Soldiers Manual of Common Tasks

SOLDIER'S NAME

Hughes	Murphy	Smith	Jones	Gray				

TASK NUMBER AND TITLE	STATUS																	
	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO	GO	NO-GO
071-326-0512 Estimate Range	3-17-04		3-17-04		3-17-04		3-17-04											
071-329-1001 Identify Terrain	4-2-04						4-20-04		4-20-04									
071-311-2004 Battlesight Zero	4-6-04		4-6-04		4-15-04				4-15-04									
878-920-1001 Armored Vehicles	5-8-04		5-8-04						5-8-04									
071-329-1002 Grid Coordinates																		
071-329-1003 Magnetic Azimuth																		
071-311-2001 MAINT M16A1 Rifle																		
071-503-1001 MAINT M17-SERIES																		
081-503-1007 Decontaminate																		
081-503-1009 MOPP Gear																		
081-831-1021 Buddy-Aid																		
081-831-1005 Prevent Shock																		
081-831-1009 FROSTBITE																		
071-326-0511 React to Flares																		
071-325-4407 Employ Hand Grenades																		
081-503-1023 Exchange MOPP Gear																		
081-831-1005 Prevent Shock																		

SAMPLE

DA FORM 5165-R, JUL 2005 PREVIOUS EDITIONS ARE OBSOLETE. APD V1.00

GLOSSARY

Section I
Acronyms and Abbreviations

A	annual
A/C	air conditioner
AC	alternating current
ACCP	Army Correspondence Course Program
AIPD	Army Institute for Professional Development
AISM	Automated Information Systems Manual
AIT	advanced individual training
AMCOM	Aviation and Missile Command
AN	annually
ANCOC	Advanced Noncommissioned Officer Course
AR	Army regulation
ARTEP	Army Training and Evaluation Program
ASI	additional skill identifier
ATTN	attention
B	before
BDAR	battle damage assessment and repair
BNCOC	Basic Noncommissioned Officer Course
BSTF	Base Shop Test Facility
BSTS	Base Shop Test Station
CAL	calibration
CBRN	chemical, biological, radiological, and nuclear
CBU	calibrate before use
CCI	controlled cryptographic item
CD	compact disk
CD-ROM	Compact Disk-Read Only Memory

CIP	Command Inspection Program
CNR	calibration not required
COE	contemporary operational environment
COMSEC	communications security
CRT	cathode ray tube
CTT	common task test
D	during
DA	Department of the Army
D.C.	District of Columbia
DC	direct current
DD	Department of Defense
DLIS	Defense Logistics Information Service
DS	direct support
DVD	Digital Versatile Disc
ECU	environmental control unit
EIR	equipment improvement recommendation
ELSEC	electronic security
EOM	electro-optic module
EOTF	electro-optics test facility
ERS	Electronic Repair Shelter
F	failed
FEDLOG	Federal Logistics
FM	field manual
Freq	frequency
G3	Army or Marine Corps component operations staff officer (Army division or higher staff, Marine Corps brigade or higher staff)
GS	general support

HI	high
HQ	Headquarters
HR	hand receipt
ICD	Interface Connection Device
IEEE	Institute of Electrical & Electronics Engineers, Inc.
IFTE	Integrated Family of Test Equipment
IMPL	initial mandatory parts list
INFOSEC	information system security
KW	kilowatt
LO	low; lubrication order
LRU	line replaceable unit
M	monthly
MCP	maintenance collection point
MCPE	Modular Collective Protection Equipment
MCSR	Materiel Condition Status Report
MDS	mission, design, and series
MED	medical
METL	Mission Essential Task List
MEVA	mission essential or vulnerable area
MO	monthly
MOS	military occupational specialty
MOSC	military occupational specialty code
MSC	major subordinate command
MST	maintenance support team
MWO	modification work order
N/A	not applicable
NCO	noncommissioned officer
NCOIC	noncommissioned officer in charge

NMC	non-mission capable
NMP	national maintenance point
No.	number
NSN	national stock number
OJT	on the job training
OPLAN	operations plan
OPORD	operations order
OPSEC	operations security
OPTEMPO	operating/operations tempo
ORF	operational readiness float
P	passed
PAM	pamphlet
PCU	power control unit
PIC	peripheral interface controller
PLL	prescribed load list
PMCS	preventive maintenance checks and services
PS	power supply
PWR	power
Q	quarterly
QA	quality assurance
QC	quality control
QDR	Quality Deficiency Report
QT	quarterly
RADIAC	radiation, detection, indication, and computation
RDL	Reimer Digital Library
RF	radio frequency
RFIU	radio frequency interface unit

ROP	reorder point
RX	reparable exchange
S	semiannually
S3	battalion or brigade operations staff officer (Army; Marine Corps battalion or regiment)
SAMS	Standard Army Maintenance System
SAMS-1	Standard Army Maintenance System-Level 1
SAMS-2	Standard Army Maintenance System-Level 2
SC	supply catalog
SF	standard form
SFDLR	stock funding of depot level repairables
SIGSEC	signal security
SL	skill level
SLAC	Support List Allowance Card
SM	Soldier's Manual
SM/TG	Soldier's Manual/Trainer's Guide
SMCT	Soldier's Manual of Common Tasks
SMD	Surface Mounted Device
SOF	safety of flight
SOP	standing operating procedure
SRU	shop replaceable unit
SSA	Supply Support Activity
STP	Soldier Training Publication
Sust	sustainment
TB	technical bulletin
TB MED	technical bulletin (medical)
TC	training circular
TG	Trainer's Guide

TI	technical inspector
TM	technical manual
TMDE	test, measurement, and diagnostic equipment
Tng	training
TOE	table(s) of organization and equipment
TPS	test program set
TRADOC	Training and Doctrine Command
UMCP	unit maintenance collection point
UND	urgency of need designator
UUT	unit under test
VA	Virginia
VDC	volts, direct current
VIC	virtual instrument chassis
VME	Versa Module Eurocard
VXI	VME bus Extensions for Instrumentation
W	weekly

Section II
Terms

FEDLOG
The logistics information system published by the Defense Logistics Information Service (DLIS). FEDLOG contains information on more than 7 million stock numbers and 12 million part numbers. Updated monthly, FEDLOG is available in CD-ROM or DVD format.

GO/NO-GO
This is a pass/fail evaluation whereby the Soldier (student) cannot be partially correct. Either he or she meets the standard or he or she does not meet the standard.

SAMS-1
Software package designed to manage maintenance operations, including work order registration, repair parts, stockage and requisition, manpower utilization, and readiness reporting.

SOP

1. Definition. An SOP is a standing order that prescribes routine methods to follow in operations. An SOP lists procedures unique to the organization and used habitually for accomplishing routine or recurring actions. It facilitates and expedites operations by: reducing the number, length, and frequency of other types of orders; simplifying the preparation and the transmission of other orders; simplifying training; promoting understanding and teamwork; advising new arrivals or newly attached units of procedures followed by the organization; and reducing confusion and errors. The SOP is one of several types of orders the commander develops and uses to get the job done. It is a set of instructions covering those features of operations which lend themselves to a definite or standardized procedure. The SOP reflects approved doctrine as published in current Army-wide literature, directives, and regulations as modified to satisfy local operating conditions and the policies of the command.

2. Need. All units performing maintenance are required to have a maintenance SOP in accordance AR 750-1. Other SOPs are required by applicable regulations. The SOP may be an annex to the unit's SOP or a stand-alone document. Regardless of its format, its purpose is to formally prescribe the way a unit performs. The SOP should be written in enough detail to give recently assigned personnel a firm grasp of how maintenance is to be accomplished in the unit.

3. Format. Although there is no established format for an SOP, one of the two following formats is generally used:

a. It may be published as an all-inclusive document. That is, it will contain sections and paragraphs detailing the duties and responsibilities of subordinate units, and where applicable, of personnel. This format will not have annexes or enclosures.

b. In the second format, the SOP may be published as a basic document containing instructions of a general nature and interest to all units. This format has separate annexes for each type of function (for example, maintenance operations, supply operations, and so forth) and technical or specific instructions for individual units and/or personnel. This second format is preferred because it is usually better prepared, more detailed, and easier to use, maintain, and update.

4. Standardization. Whichever format is used, SOPs for units within the command, or units organized under the same TOE, are standardized to facilitate cross referencing and to expedite the orientation of new personnel. SOPs prepared by subordinate units must comply with and be related to pertinent parts of the SOP of the higher command. When the SOP of a subordinate unit follows the same format as that of a major headquarters of the command, annexes prepared as a part of the subordinate unit's SOP are lettered to correspond to the similar annexes prepared by the major command. When a proposed annex is identical to one prepared by the major command, the subordinate unit may list the annex by designation only and refer to the SOP of the major command. Listing the annexes to the SOP of the major command eliminates the requirement for the subordinate unit to publish rarely used instructions in its SOP.

5. Contents. SOPs pertaining to practices or procedures governed by regulations or other publications readily available to all elements of the command should not be repeated except when the repetition is required to clarify local operating practices. Normally, reference is made to published documents when the referenced document is not subject to frequent change.

6. Scope. The scope of the SOP varies with the echelon of the preparing command. An SOP prepared by a division is broad in scope and provides essential instructions for all elements of the division. The SOP of a subordinate element of the division applies to the individual unit and elements subordinate to it. As the scope of the SOP decreases, the detail it contains will increase. For example, an SOP for a section is detailed and may state what each individual does and in what sequence he or she does it with respect to the other individuals and operations of the section. The amount and type of information to be included in an SOP must be carefully determined. These procedures must be clear and concise; however, clarity must not be sacrificed for brevity. In the absence of specific orders to the contrary, the instructions contained in the SOP are obligatory.

REFERENCES

Required Publications

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

Army Regulations

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AR 25-50	*Preparing and Managing Correspondence*, 3 June 2002.
AR 25-400-2	*The Army Records Information Management System (ARIMS)*, 2 October 2007.
AR 40-5	*Preventive Medicine*, 25 May 2007.
AR 95-1	*Flight Regulations*, 12 November 2008.
AR 190-13	*The Army Physical Security Program,* 30 September 1993.
AR 190-51	*Security of Unclassified Army Property (Sensitive and Nonsensitive),* 30 September 1993.
AR 220-1	*Unit Status Reporting,* 19 December 2006.
AR 220-45	*Duty Rosters,* 15 November 1975.
AR 380-5	*Department of the Army Information Security Program,* 29 September 2000.
AR 380-40	*(O) Policy for Safeguarding and Controlling Communications Security (COMSEC) Material (U),* 30 June 2000.
AR 385-10	*The Army Safety Program,* 23 August 2007.
AR 530-1	*(O) Operations Security (OPSEC),* 19 April 2007.
AR 600-8-10	*Leaves and Passes,* 15 February 2006.
AR 600-8-19	*Enlisted Promotions and Reductions,* 20 March 2008.
AR 600-8-22	*Military Awards,* 11 December 2006.
AR 623-3	*Evaluation Reporting System,* 10 August 2007.
AR 635-200	*Active Duty Enlisted Administrative Separations,* 6 June 2005.
AR 672-20	*Incentive Awards,* 29 January 1999.
AR 700-138	*Army Logistics Readiness and Sustainability,* 26 February 2004.
AR 710-1	*Centralized Inventory Management of the Army Supply System,* 20 September 2007.
AR 710-2	*Supply Policy below the National Level,* 28 March 2008.
AR 725-50	*Requisition, Receipt, and Issue System,* 15 November 1995.
AR 735-5	*Policies and Procedures for Property Accountability,* 28 February 2005.
AR 750-1	*Army Materiel Maintenance Policy,* 20 September 2007.

Department of Army Forms

DA forms are available from the APD website at www.apd.army.mil.

DA FORM 638	*Recommendation for Award.*
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	*Maintenance Tag.*
DA FORM 2404	*Equipment Inspection and Maintenance Worksheet.*
DA FORM 2405	*Maintenance Request Register.*
DA FORM 2406	*Materiel Condition Status Report.*
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 2765-1	*Request for Issue or Turn-in.*
DA FORM 3161	*Request for Issue or Turn-In.*
DA FORM 3266-1	*Army Missile Materiel Readiness Report.*
DA FORM 3266-2	*Missile Materiel Condition Status Report Worksheet*.
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 25-1-1	*Information Technology Support and Services,* 25 October 2006.
DA PAM 25-30	*Consolidated Index of Army Publications and Blank Forms,* 1 January 2007.
DA PAM 25-380-2	*(O) Security Procedures for Controlled Cryptographic Items,* 10 January 1991.
DA PAM 40-501	*Hearing Conservation Program,* 10 December 1998.
DA PAM 190-51	*Risk Analysis for Army Property,* 30 September 1993.
DA PAM 385-1	*Small Unit Safety Officer/NCO Guide,* 10 November 2008.
DA PAM 600-67	*Effective Writing for Army Leaders,* 2 June 1986.
DA PAM 611-21	*Military Occupational Classification and Structure,* 22 January 2007.
DA PAM 710-2-1	*Using Unit Supply System (Manual Procedures) (Standalone Pub),* 31 December 1997.
DA PAM 710-2-2	*Supply Support Activity Supply System: Manual Procedures,* 30 September 1998.
DA PAM 738-751	*Functional Users Manual for the Army Maintenance Management System-Aviation (TAMMS-A),* 15 March 1999.
DA PAM 750-1	*Commanders' Maintenance Handbook*, 2 February 2007.
DA PAM 750-3	*Soldiers' Guide for Field Maintenance Operations,* 28 September 2006.
DA PAM 750-8	*The Army Maintenance Management System (TAMMS) Users Manual,* 22 August 2005.

Department of Defense Forms

DD Forms are available from the OSD web site, www.dior.whs.mil.

DD FORM 314	*Preventive Maintenance Schedule and Record.*
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 (Repairable) Tag – Materiel.*
DD FORM 1577-3	*Unserviceable (Reparable) Label – Materiel.*
DD FORM 2332	*Product Quality Deficiency Report Exhibit.*

Field Manuals

FM 3-19.30	*Physical Security,* 8 January 2001.
FM 3-25.26	*(O) Map Reading and Land Navigation,* 18 January 2005.
FM 3-100.4	*Environmental Considerations in Military Operations,* 15 June 2000.
FM 4-0	*Combat Service Support,* 29 August 2003.
FM 4-30.3	*Maintenance Operations and Procedures,* 28 July 2004.
FM 4-30.31	*Recovery and Battlefield Damage Assessment and Repair*, 19 September 2006.
FM 5-0	*Army Planning and Orders Production,* 20 January 2005.
FM 6-22	*Army Leadership,* 12 October 2006.
FM 7-0	*Training for Full Spectrum Operations,* 12 December 2008.
FM 7-1	*Battle Focused Training,* 15 September 2003.
FM 25-4	*How to Conduct Training Exercises,* 10 September 1984.
FM 25-5	*Training for Mobilization and War,* 25 January 1985.

Other Product Types

AISM 25-L21-AHN-ZZZ-EM	*Standard Army Maintenance System - Enhanced (SAMS-1E) End User Manual,* 12 August 2008.
AISM 25-L26-AHO-ZZZ-EM	*Standard Army Maintenance System - Enhanced (SAMS-2E) End User Manual,* 12 August 2008.
DA LABEL 80	*US Army Calibrated Instrument.*
FEDLOG	*Federal Logistics information system (Updated Monthly CD-ROM/DVD) Defense Logistics Information Service (DLIS), Defense Logistics Agency (DLA).*
UNIT SOP	*Unit SOP.*
SF FORM 368	*Product Quality Deficiency Report.*

Soldier Training Publications

STP 21-1-SMCT	*Soldier's Manual of Common Tasks Skill Level 1,* 14 December 2007.
STP 21-24-SMCT	*Soldier's Manual of Common Tasks (SMCT) Warrior Leader Skill Level 2, 3, and 4,* 9 September 2008.

Technical Bulletins

TB MED 523	*Control of Hazards to Health From Microwave and Radio Frequency Radiation and Ultrasound,* 15 July 1980.
TB 43-0001-SERIES	*Equipment Improvement Report and Maintenance Digest for Tank, Automotive, Armament and Chemical Equipment,* 1 October 2000.
TB 43-0124	*Maintenance and Repair Procedure for Shelters, Electrical Equipment S-141/G and S-141B/G (NSN 5410-00-752-9698); S-144/G, S-144A/G, S-144B/G, S-144C/G and S-144D/G (5410-00-542-2532); S-250/G (5410-00-999-4935); S-250/G (Shielded) (5410-00-489-6076); S-250E/G (5411-01-248-5353); S-280/G (5410-00-999-5269); S-280A/G (5410-00-999-6022); S-280B/G (5410-00-117-2868); S-280B/G (Shielded) (5410-00-001-4093); S-280C/G S-318/G (5410-00-763-2339); and S-318A/G (5410-00-116-7086),* 5 June 1979.
TB 43-180	*Interactive Electronic Technical Manual (IETM) for Calibration and Repair Requirements for the Maintenance of Army Materiel,* 1 January 2009.
TB 380-41	*(O) Security: Procedures for Safeguarding, Accounting, and Supply Control of COMSEC Material,* 15 March 2006.
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 July 2008.
TB 750-25	*Maintenance of Supplies and Equipment: Army Test, Measurement and Diagnostic Equipment (TMDE) Calibration and Repair Support (C&RS) Program,* 7 October 2008.

Technical Manuals

TM 3-4240-325-20&P	*Unit Maintenance Manual (Including RPSTL) for Filter Unit, Gas-Particulate: 100 CFM, 120 V, 50, 60 and 400 HZ, M93 (NSN 4240-01-231-6515)*, 1 September 1991.
TM 5-4120-384-14	*Operator's, Organizational, Direct Support and General Support Maintenance Manual for Air Conditioner, Horizontal Compact; 18,000 BTU/HR, 208 V, 3 Phase, 50/60 HZ, Model F18H-3S (NSN 4120-01-165-1125); MDL F18H-3SA (4120-01-237-4663); MDL F18H-3SB (4120-01-268-4451) and 230V, Single Phase, 60HZ, MDL F18H-1S (4120-01-268-4450),* 27 May 1985.
TM 9-2330-363-14&P	*Operator's, Organizational, Direct Support and General Support Maintenance Manual Including Repair Parts and Special Tools List for Semitrailer, Van: Repair Facility, XM991 (NSN 2330-01-093-8322), Semitrailer, Van: Repair Facility, XM991E1 (2330-01-145-0363) Semitrailer, Van: Test Station, XM995 (2330-01-093-8323) Semitrailer, Van: Test Station, XM995E1 (2330-01-145-0364) Semitrailer, Van: Central Processor, XM991E2 (2330-01-151-1707) Semitrailer, Van: Mass Storage Unit, XM995E2 (2330-01-151-1706),* 4 June 1982.

TM 9-4120-370-14	*Operator's Unit, Direct Support, and General Support Maintenance Manual for Air Conditioner, Vertical, Compact 36,000 BTU Cooling, 28,600 BTU/HR Heating 208 Volt, 3 Phase, 400 Hertz Keco Model F36T4-2S (NSN 4120-01-110-2034) 208 Volt, 3 Phase, 400 Hertz Keco Model F36T2-2SA (4120-01-222-9310) 208 Volt, 3 Phase, 50/60 Hertz Keco Model F36T-2S (4120-01-222-6438) 208 Volt, 3 Phase, 50/60 Hertz Keco Model F36T-2SA (4120-01-332-7640) 208 Volt, 3 Phase, 400 Hertz Keco Model F36T4-2SB (4120-01-347-6849),* 31 August 1993.
TM 9-6115-651-14&P	*Operator, Unit, Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tools Lists) for Power Unit PU-707A/M (NSN 6115-00-394-9573) MEP-115A, 60 KW, 400 HZ, Generator Set M200A1, 2-Wheel, 4-Tire, Modified Trailer,* 10 May 1990.
TM 9-6115-663-13&P	*Operator, Unit, and Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Power Unit, Diesel Engine Driven, 2 1/2 Ton Trailer Mounted, 60 KW, 50/60 HZ, PU-805 (NSN 6115-01-317-2134) Power Unit, Diesel Engine Driven, 2 1/2 Ton Trailer Mounted, 60 KW, 400 HZ, PU-806 (6115-01-317-2133) Power Plant, Diesel Engine Driven, 2 1/2 Ton Trailer Mounted, 60 KW, 50/60 HZ, AN/MJQ-41 (6115-01-303-7896),* 15 October 1993.
TM 9-6625-901-24	*Unit, Direct Support (DS), and General Support (GS) Maintenance Manual for Test Program Set: TS-4449/USM,* 30 April 1996.
TM 9-6625-3173-40-1	*General Support (GS) Maintenance Manual for Electrical-Electronic Equipment Test Stations AN/USM-632 (V)2, (NSN 6625-01-296-5547); and AN/USM-632 (V)3, (6625-01-324-1523),* 20 October 1995.
TM 9-6625-3173-40-2	*General Support (GS) Maintenance Manual for Electrical-Electronic Equipment Test Stations AN/USM-632 (V)2, (NSN 6625-01-296-5547); and AN/USM-632 (V)3, (6625-01-324-1523),* 20 October 1995.
TM 11-6625-3173-12-1	*Operator and Unit Maintenance Manual for Electrical-Electronic Equipment Test Station: AN/USM-632 (V)3 (NSN 6625-01-324-1523) (EIC: KIG) (Integrated Family of Test Equipment (IFTE)),* 17 March 1999.
TM 11-6625-3173-12-2	*Operator and Unit Maintenance Manual for Electrical-Electronic Equipment Test Station, AN/USM-632 (V)3 (NSN 6625-01-324-1523)(EIC:KIG)(Integrated Family of Test Equipment (IFTE)),* 17 March 1999.
TM 11-6625-3173-30-1	*Direct Support (DS) Maintenance Manual for Electrical-Electronic Equipment Test Stations AN/USM-632 (V)3 (NSN 6625-01-324-1523) (EIC:KIG) (Integrated Family of Test Equipment (IFTE)),* 31 March 1999.
TM 11-6625-3173-30-2	*Direct Support (DS) Maintenance Manual for VIC Linear/28VDC Power Supply (Linear Power Supply), VIC Power Supply, Peripheral Interface Controller (PIC) and Power Control Unit (PCU); Components of Electrical-Electronic Equipment Test Station AN/USM-632(V)3, (6625-01-324-1523) (EIC: KIG) (Integrated Family of Test Equipment (IFTE)),* 12 March 1993.
TM 11-6625-3174-13	*Operator, Unit and Direct Support Maintenance Manual for Electrical-Electronic Equipment Test Station AN/USM-632(V)4 AN/TSM-141(V)5 (NSN 4920-01-472-3050) (EIC: N/A),* 31 January 2005.
TM 11-6625-3178-14	*Operator, Unit, Direct Support (DS) and General Support (GS) Maintenance Manual for Transportable Electronic Shop: Model AN/TSM-191(V)2 (NSN 4940-01-293-5615) (EIC: CDB) Model AN/TSM-191(V)3 (4940-01-324-1505) (EIC: KIF) Model AN/TSM-191(V)4 (4940-01-324-1506) (EIC: N/A),* 12 March 1993.

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