

**STP 9-52C13-SM-TG**

**Soldier's Manual  
and  
Trainer's Guide**

**Utilities Equipment Repairer  
MOS 52C  
Skill Levels 1, 2, and 3**

**August 2007**

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# **Soldier's Manual and Trainer's Guide, Utilities Equipment Repairer, MOS 52C, Skill Levels 1, 2, and 3**

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## Preface

This Soldier Training Publication (STP) is intended for Soldiers holding Military Occupational Specialty (MOS) 52C, Skill Levels (SLs) 1, 2, and 3, their supervisors, trainers, and commanders. It contains an MOS Training Plan providing 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 52C should have access to this publication. Trainers and first line supervisors should actively plan for Soldiers' access, making it available in work areas, unit learning centers, and unit libraries. However, it is not intended for an individual copy to be provided to each MOS holder. The STP is obtainable on line from the Reimer Digital Library (RDL) at: <http://www.adtdl.army.mil/atdls.htm>

Tasks in this manual apply to the Active Army, the Army National Guard/Army National Guard of the United States, and the United States Army Reserve unless otherwise stated.

The proponent of this publication is the United States Army Training and Doctrine Command (TRADOC). Submit comments and recommendations on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Department of the Army, Training Directorate, Fix/Arm Division, ATTN: ATCL-TDF, 401 First Street, Fort Lee, VA 23801-1511.



## Chapter 1

### Introduction

1-1. **General.** This STP identifies individual MOS training requirements for Soldiers holding MOS 52C. 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 MOS 52C Soldiers. Commanders employ two primary methods to evaluate Soldiers' proficiency:

- **Commander's evaluation.** Commander's evaluations are local tests or assessments of Soldiers' performance of MOS-specific and common tasks critical to the unit mission. They may be conducted year-round.
- **Common task test (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.

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

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

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

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

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

- **Task number.** The task number is a 10-digit number that identifies the task and SL. Include the task number and title in any correspondence relating to the task.
- **Task title.** The task title identifies the action to be performed.

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

1-3. **Soldier's Responsibilities.** Each Soldier is responsible for performing individual tasks identified by the first-line supervisor based on the unit's 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 STP 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 SMCTs at their current SL 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 for which they are responsible. 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 needs 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 of this STP 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

### Training 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 SL between duty position and critical tasks. These critical tasks are grouped by task commonality into subject areas.

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

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 SL, 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 SL or 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 (ANCOC, BNCOC, and so forth), the resident course where the task was taught.

Figure 2-1 contains a list of training locations and their corresponding brevity codes.

<b>BNCOC</b>	Basic NCO Course
<b>UNIT</b>	Trained in the Unit
<b>AIT</b>	Advanced Individual Training
<b>BTC</b>	Basic Technical Course
<b>WOBC</b>	Warrant Officer Basic Course

**Figure 2-1. Training Locations**

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

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

**Figure 2-2. Sustainment Training Frequency Codes**

- **Sustainment Training Skill Level Column.** This column lists the SLs 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 REFRIGERATION UNIT TASKS
- 2 AIR CONDITIONER TASKS
- 3 RECOVERY AND RECYCLING TASKS
- 5 HEATER TASKS
- 7 RECHARGER, FIRE EXTINGUISHER (HALON) TASKS
- 8 PREVENTIVE MAINTENANCE CHECKS AND SERVICES TASKS
- 12 AUTOMOTIVE AIR CONDITIONING (A/C) SYSTEMS TASKS

**Skill Level 2**

- 2 AIR CONDITIONER TASKS
- 6 BOTTLE CLEANING AND CHARGING STATION (BC/CS) TASKS
- 7 RECHARGER, FIRE EXTINGUISHER (HALON) TASKS

**Skill Level 3**

- 2 AIR CONDITIONER TASKS
- 9 COMMON LOGISTICS TASKS
- 10 TECHNICAL TASKS
- 11 TECHNICAL INSPECTION TASKS

2-3. Duty Position Training Requirements.

<b>52C CAREER FIELD DUTY POSITIONS</b>			
<b>Duty Position</b>	<b>Subject Area</b>	<b>Cross Train</b>	<b>Train-up/Merger</b>
<b>Skill Level 1</b>			
Utilities Equipment Repairer	1, 2, 3, 5, 7, 8, and 12	NA	52C20/Utilities Equipment Repairer
<b>Skill Level 2</b>			
Utilities Equipment Repairer	2, 6, and 7	NA	52C30/Senior Utilities Equipment Repairer 52C30/Technical Inspector 52C30/Utility Equipment Maintenance Manager 52C30/Senior QM & Chemical Equipment Repairer
<b>Skill Level 3</b>			
Senior Utilities Equipment Repairer Technical Inspector Utility Equipment Maintenance Manager Senior QM & Chemical Equipment Repairer	2, 9, 10, and 11	NA	52X40/Special Purpose Equipment Repairer

2-4. Critical Tasks List.**MOS TRAINING PLAN****CRITICAL TASKS**

<b>Task Number</b>	<b>Title</b>	<b>Training Location</b>	<b>Sust Tng Freq</b>	<b>Sust Tng SL</b>
<b>Skill Level 1</b>				
<b>Subject Area 1. REFRIGERATION UNIT TASKS</b>				
091-52C-2001	Correct Malfunction of Instrument Control Panel on a Refrigeration Unit	AIT	AN	1/2
091-52C-2002	Correct Malfunction of Fan and Drive Assembly on a Refrigeration Unit	AIT	AN	1/2
091-52C-2003	Correct Malfunction of Refrigerant Piping and Valves on a Refrigeration Unit	AIT	AN	1/2
091-52C-2004	Correct Malfunction of Compressor Assembly on a Refrigeration Unit	AIT	AN	1/2
091-52C-2005	Correct Malfunction of Electric Motors on a Refrigeration Unit	AIT	AN	1/2
<b>Subject Area 2. AIR CONDITIONER TASKS</b>				
091-52C-2009	Correct Malfunction of Evaporator Fan Assembly on an Air Conditioner	AIT	AN	1/2
091-52C-2011	Correct Malfunction of Junction Box Assembly on an Air Conditioner	AIT	AN	1/2
091-52C-2012	Correct Malfunction of Wiring Harness on an Air Conditioner	AIT	AN	1/2
091-52C-2014	Correct Malfunction of Control Module on an Air Conditioner	AIT	AN	1/2
091-52C-2019	Correct Malfunction of Compressor on an Air Conditioner	AIT	AN	1/2
091-52C-2021	Replace Tubing/Fitting on an Air Conditioner	AIT	AN	1/2
091-52C-2080	Correct Malfunction of Condenser/Evaporator on an Air Conditioner	AIT	AN	1/2
091-52C-2081	Correct Malfunction of Solenoid Valves on an Air Conditioner	AIT	AN	1/2
<b>Subject Area 3. RECOVERY AND RECYCLING TASKS</b>				
091-52C-2023	Perform Refrigerant Recovery	AIT	AN	1/2
091-52C-2024	Perform Refrigerant Recycling	AIT	AN	1/2
<b>Subject Area 5. HEATER TASKS</b>				
091-52C-2030	Correct Malfunction of Fuel System on a Heater	AIT	AN	1/2
091-52C-2031	Correct Malfunction of Electrical System on a Heater	AIT	AN	1/2
091-52C-2033	Correct Malfunction of Burner Assembly on a Heater	AIT	AN	1/2



Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
<b>Skill Level 1</b>				
<b>Subject Area 7. RECHARGER, FIRE EXTINGUISHER (HALON) TASKS</b>				
091-52C-2073	Operate the Halon/DPSU Recovery/Recharger Unit	AIT	AN	1/2
091-52C-2074	Inspect Halon/DPSU Fire Extinguisher (Valve and Cylinder)	AIT	AN	1/2
<b>Subject Area 8. PREVENTIVE MAINTENANCE CHECKS AND SERVICES TASKS</b>				
091-52C-2075	Perform Preventive Maintenance Checks and Services on Ground Support Equipment	AIT	AN	1/2
<b>Subject Area 12. AUTOMOTIVE AIR CONDITIONING (A/C) SYSTEMS TASKS</b>				
091-52C-2082	Maintain an Automotive Air Conditioning (A/C) System	AIT	SA	2
091-52C-3089	Repair Automotive Air Conditioning (A/C) Systems	AIT	SA	2
<b>Skill Level 2</b>				
<b>Subject Area 2. AIR CONDITIONER TASKS</b>				
091-52C-2008	Replace Panels/Filters on Air Conditioners	UNIT	AN	1/2
091-52C-2016	Correct Malfunction of Service Valve on an Air Conditioner	UNIT	AN	1/2
<b>Subject Area 6. BOTTLE CLEANING AND CHARGING STATION (BC/CS) TASKS</b>				
091-52C-2037	Operate Bottle Cleaning and Charging Station (BC/CS)	UNIT	AN	1/2
091-52C-2038	Correct Malfunction of Air Purification System on a Bottle Cleaning and Charging Station (BC/CS)	UNIT	AN	2
091-52C-2039	Correct Malfunction of Bottle Charging Stand on a Bottle Cleaning and Charging Station (BC/CS)	UNIT	AN	2
091-52C-2040	Correct Malfunction of Cleaning Station Air System on a Bottle Cleaning and Charging Station (BC/CS)	UNIT	AN	2
091-52C-2041	Correct Malfunction of Cleaning Station Water System on a Bottle Cleaning and Charging Station (BC/CS)	UNIT	AN	2
091-52C-2042	Correct Malfunction of Compressor and Motor Assembly on a Bottle Cleaning and Charging Station (BC/CS)	UNIT	AN	2
091-52C-2043	Correct Malfunction of Purity Monitor on a Bottle Cleaning and Charging Station (BC/CS)	UNIT	AN	2
091-52C-2044	Correct Malfunction of Sealer Assembly on a Bottle Cleaning and Charging Station (BC/CS)	UNIT	AN	2
091-52C-2045	Correct Malfunction of Sonic Cleaner on a Bottle Cleaning and Charging Station (BC/CS)	UNIT	AN	2
<b>Subject Area 7. RECHARGER, FIRE EXTINGUISHER (HALON) TASKS</b>				
091-52C-2078	Operate Compressor, Air Reciprocating, 15 CFM on a Halon Recovery/Recharger Unit	UNIT	AN	1/2

Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
<b>Skill Level 3</b>				
<b>Subject Area 2. AIR CONDITIONER TASKS</b>				
091-52C-3005	Troubleshoot Mechanical System on an Air Conditioner	BNCOC	AN	3
091-52C-3006	Troubleshoot the Vapor System on a Recovery and Recycling Unit	BNCOC	AN	3
<b>Subject Area 9. COMMON LOGISTICS TASKS</b>				
091-CLT-3001	Manage a Shop Safety Program	BNCOC	AN	3
091-CLT-3002	Maintain a Publications Library	BNCOC	AN	3
091-CLT-3003	Establish Maintenance Facilities	BNCOC	AN	3
091-CLT-3004	Assist in Preparing a Standing Operating Procedure	BNCOC	AN	3
091-CLT-3005	Manage Tool Control Procedures	BNCOC	AN	3
091-CLT-3006	Manage Key Control Procedures	BNCOC	AN	3
091-CLT-3007	Manage the TMDE Calibration Program	BNCOC	AN	3
091-CLT-3008	Recon Terrain/Route	BNCOC	AN	3
091-CLT-3009	Supervise Maintenance Operations	BNCOC	AN	3
091-CLT-3010	Interpret Maintenance Operational Overlay	BNCOC	AN	3
091-CLT-3011	Deploy Maintenance Support Teams	BNCOC	AN	3
091-CLT-3012	Interpret a Standard Army Maintenance System (SAMS) Generated Maintenance Report	BNCOC	AN	3
091-CLT-3013	Manage the Unit Level Logistics System (ULLS)	BNCOC	AN	3
091-CLT-3014	Manage the Unit Army Oil Analysis Program (AOAP)	BNCOC	AN	3
091-CLT-3015	Deploy Company Maintenance Team/Recovery Support Team	BNCOC	AN	3
091-CLT-3016	Review the Army Materiel Status System (AMSS) Reports	BNCOC	AN	3
<b>Subject Area 10. TECHNICAL TASKS</b>				
091-52C-3001	Perform Maintenance of the Compressor Assembly on a Refrigeration Unit	BNCOC	AN	3
091-52C-3007	Troubleshoot the Electrical System on a Recovery and Recycling Unit	BNCOC	AN	3
091-52C-3008	Troubleshoot the Fuel System on a Heater	BNCOC	AN	3
091-52C-3009	Troubleshoot the Electrical System on a Heater	BNCOC	AN	3
091-52C-3010	Troubleshoot the Mechanical System on a Heater	BNCOC	AN	3
091-52C-3011	Troubleshoot the Air Purification System on a Bottle Cleaning and Charging Station	UNIT	AN	3
091-52C-3012	Troubleshoot the Cleaning System on a Bottle Cleaning and Charging Station	UNIT	AN	3
091-52C-3013	Troubleshoot the Charging Station on a Bottle Cleaning and Charging Station	UNIT	AN	3
091-52C-3014	Troubleshoot the Compressor on a Bottle Cleaning and Charging Station	UNIT	AN	3
091-52C-3015	Troubleshoot the Motor Assemblies on a Bottle Cleaning and Charging Station	UNIT	AN	3

Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
<b>Skill Level 3</b>				
091-52C-3016	Troubleshoot the Electrical System on a Bottle Cleaning and Charging Station	UNIT	AN	3
091-52C-3017	Troubleshoot the Packaging System on a Bottle Cleaning and Charging Station	UNIT	AN	3
091-52C-3023	Perform Maintenance of the Pump Assembly on a 350-GPM Pump	BNCOC	AN	3
091-52C-3024	Troubleshoot Electrical System on the 350-GPM Pump	BNCOC	AN	3
091-52C-3025	Troubleshoot Electrical System on a Smoke Generator	BNCOC	AN	3
091-52C-3026	Perform Maintenance of the Fog Oil System on a Smoke Generator	BNCOC	AN	3
091-52C-3027	Perform Maintenance of the Air System on a Smoke Generator	BNCOC	AN	3
091-52C-3028	Troubleshoot the Fuel System on a Smoke Generator	BNCOC	AN	3
091-52C-3029	Perform Maintenance of the Pulse Jet Engine System on a Smoke Generator	BNCOC	AN	3
091-52C-3030	Troubleshoot Electrical System on a 12 CFM ABC-M7A1 Filter Unit	BNCOC	AN	3
091-52C-3035	Perform Maintenance of the Washer Assembly on a Laundry Unit	BNCOC	AN	3
091-52C-3037	Perform Maintenance of the Air Compressor Assembly on a Laundry Unit	BNCOC	AN	3
091-52C-3038	Perform Maintenance of the Extractor Assembly on a Laundry Unit	BNCOC	AN	3
091-52C-3039	Perform Maintenance of the Water Heater Assembly on a Laundry Unit/Bath Unit	BNCOC	AN	3
091-52C-3040	Perform Maintenance of the Dryer Tumbler Assembly on a Laundry Unit	BNCOC	AN	3
091-52C-3041	Perform Maintenance of the Water Pump and Motor Assembly on a Laundry Unit/Bath Unit	BNCOC	AN	3
091-52C-3044	Perform Maintenance of the Burner on an M-17 Decontaminating Apparatus	BNCOC	AN	3
091-52C-3045	Troubleshoot Electrical System on the M-17 Decontaminating Apparatus	BNCOC	AN	3
091-52C-3046	Perform Maintenance of the Water Pump Assembly on an M-17 Decontaminating Apparatus	BNCOC	AN	3
091-52C-3053	Perform Maintenance of the Water System on a Reverse Osmosis Water Purification Unit	BNCOC	AN	3
091-52C-3054	Perform Maintenance of the Water Purification Air System on a Reverse Water Purification Unit	BNCOC	AN	3
091-52C-3055	Troubleshoot the Electrical System on a Reverse Osmosis Water Purification Unit	BNCOC	AN	3
091-52C-3056	Perform Maintenance of the Water Distribution System on a Reverse Osmosis Water Purification Unit	UNIT	AN	3

Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
<b>Skill Level 3</b>				
091-52C-3062	Troubleshoot Vapor System on a Refrigeration Unit/Air Conditioner	BNCOC	AN	3
091-52C-3063	Troubleshoot Electrical System on a Refrigeration Unit/Air Conditioner	BNCOC	AN	3
091-52C-3064	Troubleshoot Mechanical System on a Refrigeration Unit	BNCOC	AN	3
091-52C-3065	Troubleshoot the Compressor, Air Reciprocating, 15 CFM on a Halon Recovery/Recharger Unit	BNCOC	AN	3
091-52C-3066	Troubleshoot the Halon/DPSU Recovery/Recharger Unit	BNCOC	AN	3
091-52C-3067	Troubleshoot the Transfer Pump on a Halon Recovery/Recharger Unit	BNCOC	AN	3
091-52C-3068	Perform Maintenance on the Engine Assembly on a 350-GPM Pump	BNCOC	AN	3
091-52C-3069	Troubleshoot the Control Module on the M56/M58 Smoke Generator	BNCOC	AN	3
091-52C-3070	Troubleshoot the Power Module on the M56/M58 Smoke Generator	BNCOC	AN	3
091-52C-3071	Troubleshoot the Visual Module on the M56/M58 Smoke Generator	BNCOC	AN	3
091-52C-3072	Troubleshoot the Infrared (IR) Module on the M56/M58 Smoke Generator	BNCOC	AN	3
091-52C-3073	Troubleshoot Control Panel on the M-17 Decontaminating Apparatus	BNCOC	AN	3
091-52C-3074	Perform Maintenance of the Fuel System on an M12A1 Decontaminating Apparatus	BNCOC	AN	3
091-52C-3075	Perform Maintenance of the Boiler Assembly on an M12A1 Decontaminating Apparatus	BNCOC	AN	3
091-52C-3076	Perform Maintenance of the Water Assembly on an M12A1 Decontaminating Apparatus	BNCOC	AN	3
091-52C-3077	Perform Maintenance of the Reverse Osmosis Pump on a 600-GPH ROWPU	BNCOC	AN	3
091-52C-3078	Perform Maintenance of the High Pressure Pump Assembly on a 3,000-GPH ROWPU	BNCOC	AN	3
091-52C-3079	Troubleshoot the Mechanical Systems on the M116A2 Steam Cleaner	BNCOC	AN	3
091-52C-3080	Troubleshoot the Fuel System on the M116A2 Steam Cleaner	BNCOC	AN	3
091-52C-3081	Troubleshoot the Air System on the M116A2 Steam Cleaner	BNCOC	AN	3
091-52C-3082	Troubleshoot the Mechanical Systems on the M116A2 Steam Cleaner	BNCOC	AN	3
091-52C-3083	Troubleshoot the Water Pump System on the M116A2 Steam Cleaner	BNCOC	AN	3
091-52C-3086	Perform Maintenance of the Drum Assembly on a Laundry Advanced System	BNCOC	AN	3
091-52C-3087	Perform Maintenance of the Heater Assembly on a Laundry Advanced System	BNCOC	AN	3

<b>Task Number</b>	<b>Title</b>	<b>Training Location</b>	<b>Sust Tng Freq</b>	<b>Sust Tng SL</b>
091-52C-3088	Troubleshoot the Control Panel on a Laundry Advanced System	BNCOC	AN	3
091-52C-3090	Perform Maintenance of the Air Compressor Assembly on a Laundry Advanced System	BNCOC	AN	3
091-52C-3091	Perform Maintenance of the Recycle Unit on a Laundry Advanced System	BNCOC	AN	3
<b>Subject Area 11. TECHNICAL INSPECTION TASKS</b>				
091-52C-3084	Perform a Quality Control/Quality Assurance Inspection of Ground Support Equipment	BNCOC	AN	3
091-52C-3085	Perform Classification Inspection of Ground Support Equipment	BNCOC	AN	3

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## Chapter 3

### MOS/Skill Level Tasks

#### Skill Level 1

#### Subject Area 1: REFRIGERATION UNIT TASKS

#### Correct Malfunction of Instrument Control Panel on a Refrigeration Unit

#### 091-52C-2001

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on inspection.	—	—
3. Practiced shop safety and maintenance discipline.	—	—
4. Serviced refrigeration unit instrument control panel components.	—	—
5. Inspected the instrument control panel and determined serviceability/malfunction(s).	—	—
6. Adjusted refrigeration unit instrument control panel components.	—	—
7. Repaired refrigeration unit instrument control panel components.	—	—
8. Replaced refrigeration unit instrument control panel components.	—	—
9. Performed a final operational test.	—	—
10. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
11. Maintained tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—

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

#### References

##### Required

DA FORM 5988-E  
TM 9-4110-256-14  
TM 10-4130-237-14

##### Related

DA FORM 2404  
MOD REFRIG/AIR COND MAN  
TM 11-6625-3052-14

**Correct Malfunction of Fan and Drive Assembly on a Refrigeration Unit**  
**091-52C-2002**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on inspection.	—	—
3. Serviced refrigeration unit fan and drive assembly components.	—	—
4. Practiced shop safety and maintenance discipline.	—	—
5. Adjusted refrigeration unit fan and drive assembly components.	—	—
6. Inspected the fan and drive assembly and determined serviceability/malfunction(s).	—	—
7. Repaired refrigeration unit fan and drive assembly components.	—	—
8. Replaced refrigeration unit fan and drive assembly components.	—	—
9. Performed a final operational test.	—	—
10. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
11. Maintained tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—

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

**References**

**Required**

DA FORM 5988-E  
 TM 9-4110-256-14  
 TM 10-4130-237-14

**Related**

DA FORM 2404  
 MOD REFRIG/AIR COND MAN  
 TM 11-6625-3052-14



**Correct Malfunction of Refrigerant Piping and Valves on a Refrigeration Unit**  
**091-52C-2003**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on inspection.	—	—
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
4. Serviced the refrigeration unit refrigerant piping and valves.	—	—
5. Practiced shop safety and maintenance discipline.	—	—
6. Adjusted the refrigeration unit refrigerant valves.	—	—
7. Repaired the refrigeration unit refrigerant piping and valves.	—	—
8. Replaced the refrigeration unit refrigerant piping and valves.	—	—
9. Performed a final operational test.	—	—
10. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
11. Maintained tools, equipment, and TMDE.	—	—

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

**References**

**Required**

DA FORM 5988-E  
TM 9-4110-256-14  
TM 10-4130-237-14

**Related**

DA FORM 2404  
MOD REFRIG/AIR COND MAN  
TM 11-6625-3052-14

**Correct Malfunction of Compressor Assembly on a Refrigeration Unit****091-52C-2004**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on inspection.	—	—
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
4. Practiced shop safety and maintenance discipline.	—	—
5. Serviced refrigeration unit compressor assembly components.	—	—
6. Adjusted refrigeration unit compressor assembly components.	—	—
7. Repaired refrigeration unit compressor assembly components.	—	—
8. Replaced refrigeration unit compressor assembly components.	—	—
9. Performed a final operational test.	—	—
10. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
11. Maintained tools, equipment, and TMDE.	—	—

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

**References****Required**

DA FORM 5988-E  
 TM 9-4110-256-14  
 TM 10-4130-237-14

**Related**

DA FORM 2404  
 MOD REFRIG/AIR COND MAN  
 TM 11-6625-3052-14

**Correct Malfunction of Electric Motors on a Refrigeration Unit**  
**091-52C-2005**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
3. Determined serviceability based on inspection.	—	—
4. Practiced shop safety and maintenance discipline.	—	—
5. Serviced the refrigeration unit electric motor.	—	—
6. Inspected the electric motor and determined serviceability/malfunction(s).	—	—
7. Adjusted the refrigeration unit electric motor.	—	—
8. Repaired the refrigeration unit electric motor.	—	—
9. Replaced the refrigeration unit electric motor.	—	—
10. Performed a final operational test.	—	—
11. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—

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

**References**

**Required**

DA FORM 5988-E  
TM 9-4110-256-14  
TM 10-4130-237-14

**Related**

DA FORM 2404  
MOD REFRIG/AIR COND MAN  
TM 11-6625-3052-14

## Subject Area 2: AIR CONDITIONER TASKS

**Correct Malfunction of Evaporator Fan Assembly on an Air Conditioner**  
**091-52C-2009**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
4. Serviced the air conditioner evaporator fan assembly.	—	—
5. Practiced shop safety and maintenance discipline.	—	—
6. Adjusted the air conditioner evaporator fan components.	—	—
7. Repaired the air conditioner evaporator fan components.	—	—
8. Replaced the air conditioner evaporator fan components.	—	—
9. Performed a final operational test.	—	—
10. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
11. Maintained tools, equipment, and TMDE.	—	—

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

**References****Required**

DA FORM 5988-E  
 TM 5-4120-285-15  
 TM 5-4120-339-14  
 TM 5-4120-359-14  
 TM 5-4120-384-14  
 TM 5-4120-386-14  
 TM 5-4120-393-14  
 TM 9-4120-371-14  
 TM 9-4120-378-14  
 TM 9-4120-385-14  
 TM 9-4120-389-14  
 TM 9-4120-389-24P

**Related**

MOD REFRIG/AIR COND MAN  
 TM 11-6625-3052-14

**Correct Malfunction of Junction Box Assembly on an Air Conditioner**  
**091-52C-2011**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
4. Practiced shop safety and maintenance discipline.	—	—
5. Serviced the air conditioner junction box assembly.	—	—
6. Adjusted the air conditioner junction box components.	—	—
7. Repaired the air conditioner junction box components.	—	—
8. Replaced the air conditioner junction box components.	—	—
9. Performed a final operational test.	—	—
10. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
11. Maintained tools, equipment, and TMDE.	—	—

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

**References**

**Required**

DA FORM 5988-E  
TM 5-4120-285-15  
TM 5-4120-339-14  
TM 5-4120-359-14  
TM 5-4120-384-14  
TM 5-4120-386-14  
TM 5-4120-393-14  
TM 9-4120-371-14  
TM 9-4120-378-14  
TM 9-4120-385-14  
TM 9-4120-389-14

**Related**

MOD REFRIG/AIR COND MAN  
TM 9-4120-389-24P  
TM 11-6625-3052-14

**Correct Malfunction of Wiring Harness on an Air Conditioner**  
**091-52C-2012**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
4. Practiced shop safety and maintenance discipline.	—	—
5. Serviced the air conditioner wiring harness.	—	—
6. Repaired the air conditioner wiring harness.	—	—
7. Replaced the air conditioner wiring harness.	—	—
8. Performed a final operational test.	—	—
9. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
10. Maintained tools, equipment, and TMDE.	—	—

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

**References****Required**

DA FORM 5988-E  
TM 11-6625-3052-14  
TM 5-4120-285-15  
TM 5-4120-339-14  
TM 5-4120-359-14  
TM 5-4120-384-14  
TM 5-4120-386-14  
TM 5-4120-393-14  
TM 9-4120-371-14  
TM 9-4120-378-14  
TM 9-4120-385-14  
TM 9-4120-389-14

**Related**

TM 9-4120-389-24P

**Correct Malfunction of Control Module on an Air Conditioner**  
**091-52C-2014**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
4. Serviced the air conditioner control module.	—	—
5. Practiced shop safety and maintenance discipline.	—	—
6. Adjusted the air conditioner control module.	—	—
7. Repaired the air conditioner control module.	—	—
8. Replaced the air conditioner control module.	—	—
9. Performed a final operational test.	—	—
10. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
11. Maintained tools, equipment, and TMDE.	—	—

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

**References**

**Required**

DA FORM 5988-E  
TM 5-4120-285-15  
TM 5-4120-339-14  
TM 5-4120-359-14  
TM 5-4120-384-14  
TM 5-4120-386-14  
TM 5-4120-393-14  
TM 9-4120-371-14  
TM 9-4120-378-14  
TM 9-4120-385-14  
TM 9-4120-389-14

**Related**

TM 9-4120-389-24P  
TM 11-6625-3052-14

**Correct Malfunction of Compressor on an Air Conditioner**  
**091-52C-2019**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
4. Serviced the air conditioner compressor.	—	—
5. Practiced shop safety and maintenance discipline.	—	—
6. Repaired the air conditioner compressor.	—	—
7. Replaced the air conditioner compressor.	—	—
8. Performed a final operational test.	—	—
9. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
10. Maintained tools, equipment, and TMDE.	—	—

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

**References**

**Required**

DA FORM 5988-E  
MOD REFRIG/AIR COND MAN  
TM 5-4120-285-15  
TM 5-4120-339-14  
TM 5-4120-359-14  
TM 5-4120-384-14  
TM 5-4120-386-14  
TM 5-4120-393-14  
TM 9-4120-371-14  
TM 9-4120-378-14  
TM 9-4120-385-14  
TM 9-4120-389-14

**Related**

TM 9-4120-389-24P  
TM 11-6625-3052-14



**Replace Tubing/Fitting on an Air Conditioner**  
**091-52C-2021**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
4. Removed the air conditioner tubing/fittings.	—	—
5. Practiced shop safety and maintenance discipline.	—	—
6. Repaired the air conditioner tubing/fittings.	—	—
7. Replaced the air conditioner tubing/fittings.	—	—
8. Performed a final operational test.	—	—
9. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
10. Maintained tools, equipment, and TMDE.	—	—

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

**References**

**Required**

DA FORM 5988-E  
MOD REFRIG/AIR COND MAN  
TM 5-4120-285-15  
TM 5-4120-339-14  
TM 5-4120-359-14  
TM 5-4120-384-14  
TM 5-4120-386-14  
TM 5-4120-393-14  
TM 9-4120-371-14  
TM 9-4120-378-14  
TM 9-4120-385-14  
TM 9-4120-389-14

**Related**

TM 9-4120-389-24P

**Correct Malfunction of Condenser/Evaporator on an Air Conditioner  
091-52C-2080**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	_____	_____
2. Determined serviceability based on an inspection.	_____	_____
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	_____	_____
4. Serviced the air conditioner condenser components.	_____	_____
5. Practiced shop safety and maintenance discipline.	_____	_____
6. Adjusted the air conditioner condenser components.	_____	_____
7. Repaired the air conditioner condenser components.	_____	_____
8. Replaced the air conditioner condenser components.	_____	_____
9. Performed a final operational test.	_____	_____
10. Completed The Army Maintenance Management System (TAMMS) forms as required.	_____	_____
11. Maintained tools, equipment, and TMDE.	_____	_____

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

**References**

**Required**

- DA FORM 5988-E
- TM 5-4120-285-15
- TM 5-4120-339-14
- TM 5-4120-359-14
- TM 5-4120-384-14
- TM 5-4120-386-14
- TM 5-4120-393-14
- TM 9-4120-371-14
- TM 9-4120-378-14
- TM 9-4120-385-14
- TM 9-4120-389-14
- TM 11-6625-3052-14

**Related**

- MOD REFRIG/AIR COND MAN
- TM 9-4120-389-24P

**Correct Malfunction of Solenoid Valves on an Air Conditioner**  
**091-52C-2081**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
4. Serviced air conditioner pressure switches/solenoid valves.	—	—
5. Practiced shop safety and maintenance discipline.	—	—
6. Adjusted air conditioner pressure switches/solenoid valves.	—	—
7. Repaired air conditioner pressure switches/solenoid valves.	—	—
8. Replaced air conditioner pressure switches/solenoid valves.	—	—
9. Performed a final operational test.	—	—
10. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
11. Maintained tools, equipment, and TMDE.	—	—

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

**References**

**Required**

DA FORM 5988-E  
TM 5-4120-285-15  
TM 5-4120-339-14  
TM 5-4120-359-14  
TM 5-4120-384-14  
TM 5-4120-386-14  
TM 5-4120-393-14  
TM 9-4120-371-14  
TM 9-4120-378-14  
TM 9-4120-385-14  
TM 9-4120-389-14

**Related**

MOD REFRIG/AIR COND MAN  
TM 9-4120-389-24P  
TM 11-6625-3052-14

## Subject Area 3: RECOVERY AND RECYCLING TASKS

**Perform Refrigerant Recovery**  
**091-52C-2023**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Hooked up the recovery unit to the air conditioner.	—	—
4. Practiced shop safety and maintenance discipline.	—	—
5. Inspected the refrigerant recovery/recycling unit and determined serviceability.	—	—
6. Observed all safety precaution.	—	—
7. Started the recovery process.	—	—
8. Shut down the unit when the recovery process was completed.	—	—
9. Disconnected the recovery unit from the air conditioner.	—	—
10. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
11. Performed a final test/inspection to verify serviceability.	—	—
12. Maintained tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—

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

**References**

**Required**

DA FORM 5988-E  
ROBINAIR OPERATING MANUAL  
TM 5-4120-285-15  
TM 5-4120-339-14  
TM 5-4120-359-14  
TM 5-4120-377-14  
TM 5-4120-384-14  
TM 5-4120-386-14  
TM 5-4120-393-14  
TM 9-4110-256-14  
TM 9-4120-371-14  
TM 9-4120-378-14  
TM 9-4120-385-14  
TM 9-4120-389-14

**Related**

DA FORM 2404  
MOD REFRIG/AIR COND MAN  
TM 9-4120-389-24P

**Perform Refrigerant Recycling**  
**091-52C-2024**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Hooked up the recovery unit to the air conditioner.	—	—
4. Practiced shop safety and maintenance discipline.	—	—
5. Inspected the refrigerant recovery/recycling unit and determined serviceability.	—	—
6. Observed all safety precaution.	—	—
7. Started the recovery process.	—	—
8. Shut down the unit when the recovery process was completed.	—	—
9. Disconnected the recovery unit from the air conditioner.	—	—
10. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
11. Performed a final test/inspection to verify serviceability.	—	—
12. Maintained tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—

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

**References**

**Required**

DA FORM 5988-E  
ROBINAIR OPERATING MANUAL  
TM 5-4120-285-15  
TM 5-4120-339-14  
TM 5-4120-359-14  
TM 5-4120-377-14  
TM 5-4120-384-14  
TM 5-4120-386-14  
TM 5-4120-393-14  
TM 9-4110-256-14  
TM 9-4120-371-14  
TM 9-4120-378-14  
TM 9-4120-385-14  
TM 9-4120-389-14

**Related**

DA FORM 2404  
MOD REFRIG/AIR COND MAN  
TM 9-4120-389-24P

## Subject Area 5: HEATER TASKS

**Correct Malfunction of Fuel System on a Heater****091-52C-2030**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Inspected, tested, serviced the heater fuel system and adjusted or replaced components in accordance with applicable corrective action on applicable forms. When this task was completed, the heater must be fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
3. Determined serviceability based on an inspection.	—	—
4. Practiced shop safety and maintenance discipline.	—	—
5. Serviced the heater fuel system components.	—	—
6. Tested the heater fuel system components.	—	—
7. Adjusted the heater fuel system components.	—	—
8. Repaired the heater fuel system components.	—	—
9. Replaced the heater fuel system components.	—	—
10. Performed a final operational test.	—	—
11. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
12. Maintained tools, equipment, and TMDE.	—	—

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

**References****Required**

TM 5-4520-253-13  
TM 5-4520-253-23P

**Related**

TM 11-6625-3052-14



**Correct Malfunction of Electrical System on a Heater**  
**091-52C-2031**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Inspected, tested, serviced the heater electrical system and adjusted or replaced components in accordance with applicable corrective action on applicable forms. When this task was completed, the heater electrical system must be fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Serviced the heater electrical system components.	—	—
4. Practiced shop safety and maintenance discipline.	—	—
5. Tested the heater electrical system components.	—	—
6. Inspected the heater electrical system and determined malfunction(s).	—	—
7. Adjusted the heater electrical system components.	—	—
8. Repaired the heater electrical system components.	—	—
9. Replaced the heater electrical system components.	—	—
10. Performed a final operational test.	—	—
11. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
12. Maintained tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—

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

**References**

**Required**

TM 5-4520-253-13  
TM 5-4520-253-23P

**Related**

TM 11-6625-3052-14

**Correct Malfunction of Burner Assembly on a Heater**  
**091-52C-2033**

**Conditions:** In a contemporary operational environment, given a 60,000 BTU space heater, multimeter, flat tip screwdriver, maintenance request or equipment inspection worksheet describing equipment malfunctions, additional tools, equipment specified in TMs, repair parts, applicable maintenance forms and technical publications, and supervision/assistance.

**Standards:** Corrected malfunction of burner assembly on a heater in accordance with applicable technical publications. When the task was completed, the heater was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable technical publications.	—	—
2. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
3. Practiced shop safety and maintenance discipline.	—	—
4. Inspected the heater burn assembly and determined malfunction(s).	—	—
5. Serviced the heater burner assembly components.	—	—
6. Tested the heater burner assembly components.	—	—
7. Adjusted the heater burner assembly components.	—	—
8. Repaired/replaced the heater burner assembly components as required.	—	—
9. Performed a final test/inspection to verify fault(s) were corrected.	—	—
10. Annotated corrective actions taken on the DA Form 5988-E (Equipment Inspection Maintenance Worksheet (EGA)).	—	—
11. Maintained tools, equipment, and TMDE.	—	—

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

**References**

**Required**

DA FORM 5988-E  
TM 5-4520-253-13  
TM 5-4520-253-23P

**Related**

TM 11-6625-3052-14

## Subject Area 7: RECHARGER, FIRE EXTINGUISHER (HALON) TASKS

**Operate the Halon/DPSU Recovery/Recharger Unit****091-52C-2073**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** The scale assembly must be inspected, tested, serviced, adjusted, or components replaced in accordance with applicable technical publication procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Selected and used applicable tools and equipment.	—	—
3. Practiced shop safety and maintenance discipline.	—	—
4. Determined serviceability based on an inspection.	—	—
5. Tested the scale assembly (Halon).	—	—
6. Adjusted the scale assembly (Halon).	—	—
7. Repaired the scale assembly (Halon).	—	—
8. Replaced the scale assembly (Halon).	—	—
9. Emptied and refilled two-pound dry powder bottle (Dry Powder Service Unit [DPSU]).	—	—
10. Performed an operational test.	—	—
11. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—

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

**References****Required**

TM 5-4210-218-13&amp;P

TM 5-4310-373-14

TM 5-4310-373-24P

**Related**

**Inspect Halon/DPSU Fire Extinguisher (Valve and Cylinder)  
091-52C-2074**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** The scale assembly must be inspected, tested, serviced, adjusted, or components replaced in accordance with applicable technical publication procedures and specifications.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
1. Used applicable publications.	_____	_____
2. Selected and used applicable tools and equipment.	_____	_____
3. Determined serviceability based on an inspection of the halon fire extinguisher (valve and cylinder).	_____	_____
4. Practiced shop safety and maintenance discipline.	_____	_____
5. Tested the valve and cylinder assembly.	_____	_____
6. Repaired the valve and cylinder assembly.	_____	_____
7. Replaced the valve and cylinder assembly.	_____	_____
8. Performed an operational test.	_____	_____
9. Completed The Army Maintenance Management System (TAMMS) forms as required.	_____	_____
10. Maintained tools and equipment.	_____	_____

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

**References**

**Required**

- TM 5-4210-218-13&P
- TM 5-4310-373-14
- TM 5-4310-373-24P

**Related**

## Subject Area 8: PREVENTIVE MAINTENANCE CHECKS AND SERVICES TASKS

**Perform Preventive Maintenance Checks and Services on Ground Support Equipment  
091-52C-2075**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Soldier must perform this task in accordance with listed references, ensuring that all applicable safety precautions are followed, with supervision and minimum assistance.

**Performance Steps**

1. Operate under normal conditions.
  - a. Select and use applicable technical publications.
  - b. Select and use applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).
  - c. Practice shop safety and maintenance discipline.
  - d. Perform before-operation checks.
  - e. Operate equipment.
  - f. Shut down equipment.
  - g. Perform after-operation checks.
  - h. Perform a final test/inspection.
  - i. Annotate corrective actions taken on the DA Form 5988-E (Equipment Inspection Maintenance Worksheet (EGA)).
  - j. Maintain tools, equipment, and TMDE.
2. Operate under extreme heat (up to 125 degrees Fahrenheit [F]).
  - a. Check coolant level, temperature indicators, fan belt, and air passages for obstructions frequently.
  - b. Maintain coolant levels approximately two inches below the radiator overflow pipe if so equipped.
  - c. Check radiator frequently.
  - d. Check fan belt for proper tension.

**Performance Measures**

- |   | <u>GO</u> | <u>NO-GO</u> |
|---|-----------|--------------|
| 1. Operated under normal conditions.                  | —         | —            |
| 2. Operated under extreme heat (up to 125 degrees F). | —         | —            |

**References**

**Required**

DA FORM 5988-E  
DA PAM 385-1  
FM 4-30.3

**Related**

DA FORM 2404  
MOD REFRIG/AIR COND MAN  
TB SIG 222  
TC 9-60  
TC 9-62  
TM 5-4120-339-14  
TM 5-4120-359-14  
TM 5-4120-377-14  
TM 5-4120-384-14  
TM 5-4120-386-14  
TM 5-4120-393-14  
TM 5-4210-218-13&P  
TM 5-4310-373-14  
TM 5-4310-373-24P  
TM 5-4520-253-13  
TM 5-4520-253-23P  
TM 9-243  
TM 9-2540-205-24&P  
TM 9-2540-207-14&P  
TM 9-4110-256-14  
TM 9-4910-755-13&P  
TM 9-8000  
TM 11-6625-3052-14  
TVT 9-51

Subject Area 12: AUTOMOTIVE AIR CONDITIONING (A/C) SYSTEMS TASKS

**Maintain an Automotive Air Conditioning (A/C) System  
091-52C-2082**

**Conditions:** As a utilities equipment repairer in a contemporary operational environment, given service kit, refrigerant, multimeter, digital, AN/PSM-45A, truck, ambulance, 4-litter armed, 4x4 w/e, M997, tool kit, service refrigeration unit, general maintenance, DA Form 2404 (Equipment Inspection and Maintenance Worksheet) or DA Form 5988-E (Equipment Inspection and Maintenance Worksheet (EGA)), and TM 9-2320-280-10. The vehicle's air conditioning system does not cool.

**Standards:** Serviced the automotive air conditioner system in accordance with applicable technical references. When the task was completed, the A/C was fully mission-capable.

**Performance Steps**

1. Select and use applicable technical publications.
2. Select and use applicable tools and equipment.
3. Practice shop safety and maintenance discipline.
4. Inspect automotive air conditioner system and determine serviceability/malfunction(s).
  - a. Troubleshoot system to identify malfunction.
  - b. Correct malfunction.
5. Service the automotive A/C system.
  - a. Discharge the automotive A/C system.
  - b. Flush the automotive A/C system.
  - c. Evacuate the automotive A/C system.
  - d. Charge the automotive A/C system.
  - e. Replace dryer bottle of automotive A/C system.
6. Perform a final test/inspection to verify fault(s) are corrected.
7. Annotate corrective action taken on DA Form 2404 or DA Form 5988-E.
8. Maintain tools and equipment.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Selected and used applicable technical publications.	—	—
2. Selected and used applicable tools and equipment.	—	—
3. Practiced shop safety and maintenance discipline.	—	—
4. Inspected automotive air conditioner system and determined serviceability/malfunction(s).	—	—
5. Serviced the automotive A/C system.	—	—
6. Performed a final test/inspection to verify fault(s) were corrected.	—	—
7. Annotated corrective actions taken on DA Form 2404 or DA Form 5988-E.	—	—
8. Maintained tools and equipment.	—	—

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

**References****Required**

DA FORM 2404  
MOD REFRIG/AIR COND MAN  
TM 9-2320-280-10  
TM 9-2320-280-20-1  
TM 9-2320-280-20-2  
TM 9-2320-280-20-3  
TM 9-2320-280-24P-1  
TM 9-2320-280-24P-2  
TM 9-2320-280-34

**Related**



## Repair Automotive Air Conditioning (A/C) Systems

**091-52C-3089**

**Conditions:** As a utilities equipment repairer in a contemporary operational environment, given service kit, refrigerant, multimeter, digital, AN/PSM-45A, truck, ambulance, 4-litter armed, 4x4 w/e, M997, tool kit, service refrigeration unit, general maintenance, DA Form 2404 (Equipment Inspection and Maintenance Worksheet) or DA Form 5988-E (Equipment Inspection and Maintenance Worksheet (EGA)), and TM 9-2320-280-10. The vehicle's air conditioning system does not cool.

**Standards:** Serviced the automotive air conditioner system in accordance with applicable technical references. When the task was completed, the A/C was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable technical publications.	—	—
2. Selected and used applicable tools and equipment.	—	—
3. Practiced shop safety and maintenance discipline.	—	—
4. Inspected automotive air conditioner system and determined serviceability/malfunction(s).	—	—
5. Troubleshoot system to identify malfunction.	—	—
6. Corrected malfunction.	—	—
7. Serviced the automotive A/C system.	—	—
8. Discharged the automotive A/C system.	—	—
9. Flushed the automotive A/C system.	—	—
10. Evacuated the automotive A/C system.	—	—
11. Charged the automotive A/C system.	—	—
12. Replaced dryer bottle of automotive A/C system.	—	—
13. Performed a final test/inspection to verify fault(s) were corrected.	—	—
14. Annotated corrective actions taken on DA Form 2404 or DA Form 5988-E.	—	—
15. Maintained tools and equipment.	—	—

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

**References**

**Required**

DA FORM 2404  
DA FORM 5988-E  
MOD REFRIG/AIR COND MAN  
TM 9-2320-280-10  
TM 9-2320-280-20-1  
TM 9-2320-280-20-2  
TM 9-2320-280-20-3  
TM 9-2320-280-24P-1  
TM 9-2320-280-24P-2  
TM 9-2320-280-34

**Related**

## Skill Level 2

## Subject Area 2: AIR CONDITIONER TASKS

**Replace Panels/Filters on Air Conditioners**  
**091-52C-2008**

**Conditions:** In a contemporary operational environment, given an air conditioning unit, refrigeration and air conditioning tool kit, maintenance request or equipment inspection worksheet describing equipment malfunctions, additional tools, equipment specified in technical manuals (TMs), repair parts, applicable maintenance forms and technical publications, and supervisor/assistance.

**Standards:** Replaced panels/filters on an air conditioner in accordance with applicable technical publications. When the task was completed, the air conditioner was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable technical publications.	—	—
2. Selected and used applicable tools and equipment.	—	—
3. Practiced shop safety and maintenance discipline.	—	—
4. Inspected panels and filters and determined serviceability/malfunction(s).	—	—
5. Removed panels and filters as required.	—	—
6. Repaired/replaced panels and filters as required.	—	—
7. Reinstalled panels and filters as required.	—	—
8. Performed a final test/inspection to verify fault(s) were corrected.	—	—
9. Annotated corrective actions taken on DA Form 2404 (Equipment Inspection and Maintenance Worksheet) or DA Form 5988-E (Equipment Inspection and Maintenance Worksheet (EGA)).	—	—
10. Maintained tools and equipment.	—	—

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

**References****Required**

DA FORM 2404  
DA FORM 5988-E  
TM 5-4120-285-15  
TM 5-4120-339-14  
TM 5-4120-359-14  
TM 5-4120-384-14  
TM 5-4120-386-14  
TM 5-4120-393-14  
TM 9-4120-371-14  
TM 9-4120-378-14  
TM 9-4120-385-14  
TM 9-4120-389-14

**Related**

TM 9-4120-389-24P

**Correct Malfunction of Service Valve on an Air Conditioner**  
**091-52C-2016**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<u>GO</u>	<u>NO-GO</u>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
4. Serviced the air conditioner service valve.	—	—
5. Practiced shop safety and maintenance discipline.	—	—
6. Repaired the air conditioner service valve.	—	—
7. Replaced the air conditioner service valve.	—	—
8. Performed a final operational test.	—	—
9. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
10. Maintained tools, equipment, and TMDE.	—	—

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

**References****Required**

DA FORM 5988-E  
TM 11-6625-3052-14  
TM 5-4120-285-15  
TM 5-4120-339-14  
TM 5-4120-359-14  
TM 5-4120-384-14  
TM 5-4120-386-14  
TM 5-4120-393-14  
TM 9-4120-371-14  
TM 9-4120-378-14  
TM 9-4120-385-14  
TM 9-4120-389-14

**Related**

MOD REFRIG/AIR COND MAN  
TM 9-4120-389-24P

## Subject Area 6: BOTTLE CLEANING AND CHARGING STATION (BC/CS) TASKS

**Operate Bottle Cleaning and Charging Station (BC/CS)****091-52C-2037**

**Conditions:** In a contemporary operational environment with supervision and assistance, given a maintenance request or equipment inspection worksheet, required tools, and test equipment.

**Standards:** Inspected, prepared for operation, and operated the BC/CS to clean, charge, and package coolant bottles in accordance with applicable technical publication procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Prepared the BC/CS for operation.	—	—
4. Practiced shop safety and maintenance discipline.	—	—
5. Operated the BC/CS to charge a coolant bottle.	—	—
6. Shut down the BC/CS.	—	—
7. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
8. Maintained tools and equipment.	—	—

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

**References****Required**

TM 9-5855-252-12

**Related**

TM 9-5855-252-24P

TM 9-5855-252-34

**Correct Malfunction of Air Purification System on a Bottle Cleaning and Charging Station (BC/CS)  
091-52C-2038**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Inspected, prepared for operation, and operated the air purification system in accordance with applicable technical publication procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	_____	_____
2. Determined serviceability based on an inspection.	_____	_____
3. Selected and used applicable tools and equipment.	_____	_____
4. Serviced the air purification system on a BC/CS.	_____	_____
5. Practiced shop safety and maintenance discipline.	_____	_____
6. Tested the air purification system components on a BC/CS.	_____	_____
7. Adjusted the air purification system components on a BC/CS.	_____	_____
8. Repaired the air purification system components on a BC/CS.	_____	_____
9. Replaced the air purification system components on a BC/CS.	_____	_____
10. Performed a final operational test.	_____	_____
11. Completed The Army Maintenance Management System (TAMMS) forms as required.	_____	_____
12. Maintained tools and equipment.	_____	_____

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

**References**

**Required**

TM 9-5855-252-12

TM 9-5855-252-34

**Related**

TM 9-5855-252-24P

TM 11-6625-3052-14

**Correct Malfunction of Bottle Charging Stand on a Bottle Cleaning and Charging Station (BC/CS)  
091-52C-2039**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Inspected, prepared for operation, and operated in accordance with applicable technical publication procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Selected and used applicable tools and equipment.	—	—
4. Serviced the bottle charging stand on a BC/CS.	—	—
5. Practiced shop safety and maintenance discipline.	—	—
6. Tested the bottle charging stand on a BC/CS.	—	—
7. Adjusted the bottle charging stand on a BC/CS.	—	—
8. Repaired the bottle charging stand on a BC/CS.	—	—
9. Replaced the bottle charging stand on a BC/CS.	—	—
10. Performed a final operational test.	—	—
11. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
12. Maintained tools and equipment.	—	—

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

**References**

**Required**

TM 9-5855-252-12

TM 9-5855-252-34

**Related**

TM 9-5855-252-24P

**Correct Malfunction of Cleaning Station Air System on a Bottle Cleaning and Charging Station (BC/CS)**

**091-52C-2040**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Inspected, prepared for operation, and operated the cleaning station air system in accordance with applicable technical publication procedures and specifications.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Selected and used applicable tools and equipment.	—	—
4. Serviced the cleaning station air system on a BC/CS.	—	—
5. Practiced shop safety and maintenance discipline.	—	—
6. Tested the cleaning station air system on a BC/CS.	—	—
7. Adjusted the cleaning station air system components on a BC/CS.	—	—
8. Repaired the cleaning station air system components on a BC/CS.	—	—
9. Replaced the cleaning station air system components on a BC/CS.	—	—
10. Performed a final operational test.	—	—
11. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
12. Maintained tools and equipment.	—	—

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

**References**

**Required**

- TM 9-5855-252-12
- TM 9-5855-252-34

**Related**

- TM 11-6625-3052-14
- TM 9-5855-252-24P



**Correct Malfunction of Cleaning Station Water System on a Bottle Cleaning and Charging Station  
(BC/CS)**

**091-52C-2041**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Inspected, prepared for operation, and operated the cleaning station water system in accordance with applicable technical publication procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
4. Serviced the cleaning station water system on a BC/CS.	—	—
5. Practiced shop safety and maintenance discipline.	—	—
6. Tested the cleaning station water system components on a BC/CS.	—	—
7. Adjusted the cleaning station water system on a BC/CS.	—	—
8. Repaired the cleaning station water system components on a BC/CS.	—	—
9. Replaced the cleaning station water system components on a BC/CS.	—	—
10. Performed a final operational test.	—	—
11. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
12. Maintained tools and equipment.	—	—

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

**References**

**Required**

TM 9-5855-252-12

TM 9-5855-252-34

**Related**

TM 11-6625-3052-14

TM 9-5855-252-24P

**Correct Malfunction of Compressor and Motor Assembly on a Bottle Cleaning and Charging Station (BC/CS)**

**091-52C-2042**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Inspected, prepared for operation, and operated the compressor and motor assembly in accordance with applicable technical publication procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
3. Determined serviceability based on an inspection.	—	—
4. Serviced the compressor and motor on a BC/CS.	—	—
5. Practiced shop safety and maintenance discipline.	—	—
6. Tested the compressor and motor components on a BC/CS.	—	—
7. Adjusted the compressor and motor components on a BC/CS.	—	—
8. Repaired the compressor and motor components on a BC/CS.	—	—
9. Replaced the compressor and motor components on a BC/CS.	—	—
10. Performed a final operational test.	—	—
11. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
12. Maintained tools, equipment, and TMDE.	—	—

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

**References**

**Required**

TM 9-5855-252-12

TM 9-5855-252-34

**Related**

TM 11-6625-3052-14

TM 9-5855-252-24P

**Correct Malfunction of Purity Monitor on a Bottle Cleaning and Charging Station (BC/CS)  
091-52C-2043**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Inspected, prepared for operation, and operated the purity monitor in accordance with applicable technical publication procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
4. Serviced the purity monitor on a BC/CS.	—	—
5. Practiced shop safety and maintenance discipline.	—	—
6. Tested the purity monitor on a BC/CS.	—	—
7. Adjusted the purity monitor on a BC/CS.	—	—
8. Repaired the purity monitor on a BC/CS.	—	—
9. Replaced the purity monitor on a BC/CS.	—	—
10. Performed a final operational test.	—	—
11. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
12. Maintained tools, equipment, and TMDE.	—	—

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

**References**

**Required**

TM 9-5855-252-12  
TM 9-5855-252-34

**Related**

TM 11-6625-3052-14  
TM 9-5855-252-24P

**Correct Malfunction of Sealer Assembly on a Bottle Cleaning and Charging Station (BC/CS)  
091-52C-2044**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Inspected, prepared for operation, and operated the sealer assembly in accordance with applicable technical publication procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on an inspection.	—	—
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
4. Serviced the sealer assembly on a BC/CS.	—	—
5. Practiced shop safety and maintenance discipline.	—	—
6. Tested the sealer assembly on a BC/CS.	—	—
7. Adjusted the sealer assembly on a BC/CS.	—	—
8. Repaired the sealer assembly on a BC/CS.	—	—
9. Replaced the sealer assembly on a BC/CS.	—	—
10. Performed a final operational test.	—	—
11. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
12. Maintained tools, equipment, and TMDE.	—	—

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

**References**

**Required**

- TM 9-5855-252-12
- TM 9-5855-252-34

**Related**

- TM 9-5855-252-24P

**Correct Malfunction of Sonic Cleaner on a Bottle Cleaning and Charging Station (BC/CS)  
091-52C-2045**

**Conditions:** In a contemporary operational environment with supervision and minimum assistance, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Inspected, prepared for operation, and operated the BC/CS to clean, charge, and package coolant bottles, in accordance with applicable technical publication procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Used applicable publications.	—	—
2. Determined serviceability based on inspection.	—	—
3. Selected and used applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE).	—	—
4. Serviced sonic cleaner on a BC/CS.	—	—
5. Practiced shop safety and maintenance discipline.	—	—
6. Tested sonic cleaner on a BC/CS.	—	—
7. Adjusted sonic cleaner on a BC/CS.	—	—
8. Repaired sonic cleaner on a BC/CS.	—	—
9. Replaced sonic cleaner on a BC/CS.	—	—
10. Performed a final operational test.	—	—
11. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
12. Maintained tools, equipment, and TMDE.	—	—

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

**References**

**Required**

TM 9-5855-252-12  
TM 9-5855-252-34

**Related**

TM 9-5855-252-24P  
TM 11-6625-3052-14

Subject Area 7: RECHARGER, FIRE EXTINGUISHER (HALON) TASKS

**Operate Compressor, Air Reciprocating, 15 CFM on a Halon Recovery/Recharger Unit  
091-52C-2078**

**Conditions:** In a contemporary operational environment, given a halon recovery/recharger system, additional tools, applicable maintenance forms and technical publications, and supervision/assistance.

**Standards:** Operated compressor, air reciprocating, 15 cubic feet per minute (CFM) on a halon recovery/recharger unit in accordance with applicable technical publications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used applicable technical publications.	—	—
2. Selected and used applicable tools and equipment.	—	—
3. Practiced shop safety and maintenance discipline.	—	—
4. Inspected compressor, air reciprocating and determined serviceability.	—	—
5. Serviced compressor, air reciprocating.	—	—
6. Performed preoperational checks.	—	—
7. Operated compressor, air reciprocating.	—	—
8. Annotated actions taken on DA Form 5988-E (Equipment Inspection Maintenance Worksheet (EGA)).	—	—
9. Maintained tools and equipment.	—	—

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

**References**

**Required**

- TM 5-4210-218-13&P
- TM 5-4310-373-14
- TM 5-4310-373-24P

**Related**

## Skill Level 3

## Subject Area 2: AIR CONDITIONER TASKS

**Troubleshoot Mechanical System on an Air Conditioner**  
**091-52C-3005**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, refrigeration and air conditioning tool kit, 9,000 British thermal unit/hour (BTU/hr) vertical compact air conditioner, 18,000 BTU/hr vertical compact air conditioner, 18,000 BTU/HR horizontal compact air conditioner, 36,000 BTU/hr horizontal compact air conditioner, vacuum pump, additional tools, equipment specified in technical manuals (TMs), repair parts, multimeter, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting of the mechanical system on an air conditioner in accordance with applicable technical publications. When the task was completed, the air conditioner was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the mechanical system.	—	—
8. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
9. Identified repair parts and requisitioned, if required.	—	—
10. Assembled the mechanical system.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures were followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the mechanical system was repaired in accordance with appropriate technical manuals and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the mechanical system was fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 5-4120-359-14  
TM 5-4120-384-14  
TM 5-4120-386-14  
TM 5-4120-393-14

**Related**

MOD REFRIG/AIR COND MAN



**Troubleshoot the Vapor System on a Recovery and Recycling Unit**  
**091-52C-3006**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions. Equipment required: tool kit, refrigeration service; air conditioning unit; required safety equipment; testing equipment; special tools; and other equipment materials.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Determined maintenance action vapor system on a recovery and recycling unit.	—	—
3. Ensured maintenance required was within shop capability/authorization.	—	—
4. Ensured proper tools and test equipment were available.	—	—
5. Identified repair parts to be requisitioned.	—	—
6. Assigned personnel to perform maintenance.	—	—
7. Ensured all safety precautions were followed.	—	—
8. Ensured maintenance procedures were in accordance with publications.	—	—
9. Provided assistance if necessary.	—	—
10. Ensured operational test was performed.	—	—
11. Ensured The Army Maintenance Management System (TAMMS) forms were completed, as required.	—	—
12. Ensured tools and equipment were properly maintained.	—	—
13. Critiqued personnel on work performance.	—	—
14. Performed a final inspection (charge, reclaim, evacuate) to ensure the vapor system was fully mission-capable.	—	—
15. Critiqued personnel on their job performance.	—	—
16. Ensured maintenance forms were completed as required.	—	—
17. Ensured tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were properly maintained.	—	—

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

**References**

**Required**  
TM 9-4110-256-14

**Related**  
MOD REFRIG/AIR COND MAN

## Subject Area 9: COMMON LOGISTICS TASKS

**Manage a Shop Safety Program****091-CLT-3001**

**Conditions:** In a contemporary operational environment given a maintenance site/facility, maintenance personnel, and applicable references.

**Standards:** Ensured that personnel followed all safety procedures and preventable accidents were avoided. If accidents occurred, they were properly recorded and reported in accordance with applicable references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured all safety references were on hand.	—	—
2. Established and documented goals and requirements for a successful shop safety and accident prevention program.	—	—
3. Briefed and regularly updated subordinates on shop safety program.	—	—
4. Conducted initial safety inspections.	—	—
5. Ensured initial safety concerns and violations were corrected.	—	—
6. Conducted scheduled and unscheduled safety inspections.	—	—
7. Documented safety violations, reported the violations as required, and conducted follow-up inspections to ensure violations were corrected.	—	—
8. Kept necessary records of safety inspections and accident reports.	—	—
9. Ensured material safety data sheets (MSDS) were prepared and maintained as required in applicable work areas.	—	—

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

**References****Required**

AR 190-13  
 AR 220-1  
 AR 700-138  
 AR 750-1  
 DA PAM 750-8  
 FM 4-30.3  
 TB 43-180

**Related**

AR 385-10  
 AR 385-40  
 AR 385-55

**Maintain a Publications Library**  
**091-CLT-3002**

**Conditions:** In a contemporary operational environment given publications and storage location, local and higher headquarters publications indexes and publications procedures, standing operating procedure (SOP), and applicable forms and references.

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

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Determined all publications required by the maintenance shop or section.	—	—
2. Reviewed and updated publications library SOP as needed.	—	—
3. Ensured that technical publications on hand or on order were the most current in accordance with DA Pamphlet 25-30.	—	—
4. Ensured that doctrinal, training, and organizational publications on hand or on order were the most current in accordance with DA Pamphlet 25-30 and local listings.	—	—
5. Ensured that administrative publications on hand or on order were the most current in accordance with DA Pamphlet 25-30.	—	—
6. Ensured that local and higher headquarters publications on hand or on order were the most current in accordance with DA Pamphlet 25-30 and local listings.	—	—
7. Prepared DA Form 4569-1-R (Security Assistance Publication Requisition Code Sheet (LRA)) in accordance with DA Pamphlet 25-33.	—	—
8. Prepared the required transmittal form in accordance with DA Pamphlet 25-33.	—	—
9. Prepared DA Form 17 (Requisition for Publications and Blank Forms) and DA Form 17-1 (Requisition for Publications and Blank Forms (Continuation Sheet) to request local and higher headquarters publications in accordance with DA Pamphlet 25-33 and local or higher headquarters publications requisitioning procedures.	—	—
10. Ensured that published changes were posted to applicable publications in accordance with DA Pamphlet 25-40 and publications change instructions.	—	—
11. Removed obsolete, rescinded, or superseded publications from library in accordance with DA Pamphlet 25-40 and publications change instructions.	—	—
12. Arranged publications in proper order and in a suitable location in accordance with DA Pamphlet 25-40.	—	—
13. Labeled binders used for storing library publications in accordance with AR 25-400-2 and DA Pamphlet 25-40.	—	—
14. Notified personnel to return loaned publications to the library in a timely manner in accordance with publications library SOP.	—	—
15. Updated Army Publishing Directorate (APD), local, and higher headquarters publications accounts, as required, in accordance with DA Pamphlet 25-33 and local or higher headquarters publications account instructions.	—	—

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

**References**

**Required**

AR 25-400-2  
DA FORM 17  
DA FORM 17-1  
DA FORM 4569-1-R  
DA PAM 25-30  
DA PAM 25-33  
DA PAM 25-40

**Related**

AR 25-11

## Establish Maintenance Facilities

### 091-CLT-3003

**Conditions:** In a contemporary operational environment given a maintenance site, maintenance personnel, applicable equipment, maintenance shop/section standing operating procedure (SOP), and applicable references.

**Standards:** Set up a maintenance shop facility suitable for accomplishing necessary maintenance functions in accordance with applicable references.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
1. Ensured SOP and required reference were available.	—	—
2. Identified commander's maintenance requirements for accomplishing the unit mission.	—	—
3. Set up the maintenance facility in accordance with SOP.	—	—

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

#### References

**Required**  
FM 4-30.3

#### Related

**Assist in Preparing a Standing Operating Procedure  
091-CLT-3004**

**Conditions:** In a contemporary operational environment given FM 4-30.3, higher headquarters standing operating procedure (SOP), and commander's guidance.

**Standards:** Prepared a draft copy of a maintenance shop/section internal or external SOP for supervisor's review, comment, and approval in accordance with applicable references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured applicable publications were available.	—	—
2. Ensured unit policies and commander's guidance were followed.	—	—
3. Ensured shop operation policies were adequately addressed.	—	—
4. Updated the shop SOP, as required.	—	—

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

**References**

**Required**  
FM 4-30.3

**Related**

**Manage Tool Control Procedures**  
**091-CLT-3005**

**Conditions:** In a contemporary operational environment given applicable supply catalog(s), applicable references, and hand receipt forms.

**Standards:** Managed tool control procedures in accordance with applicable references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured applicable references were available.	—	—
2. Established policies and procedures for the control of tools.	—	—
3. Ensured all DA Form 2062s (Hand Receipt/Annex Number) were properly filled out and updated.	—	—
4. Ensured tools and equipment were inventoried in accordance with applicable references.	—	—
5. Ensured tool shortages were annotated on a shortage annex.	—	—
6. Ensured subordinates applied property accountability procedures.	—	—

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

**References**

**Required**

AR 190-13  
AR 220-1  
AR 385-10  
AR 385-40  
AR 700-138  
AR 750-1  
DA FORM 2062  
DA PAM 710-2-1  
FM 1-02  
FM 4-30.3

**Related**

DA PAM 750-8

**Manage Key Control Procedures  
091-CLT-3006**

**Conditions:** In a contemporary operational environment given keys, key control rosters, key boxes/cabinets, and applicable publications.

**Standards:** Managed key control procedures in accordance with applicable references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured necessary publications were available.	—	—
2. Established key control policies and procedures.	—	—
3. Established key control access rosters.	—	—
4. Ensured personnel were aware of their responsibilities for the security and accountability of keys.	—	—
5. Ensured key control access rosters were properly maintained and adhered to.	—	—

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

**References**

**Required**  
AR 190-13  
AR 190-51

**Related**



**Manage the TMDE Calibration Program**  
**091-CLT-3007**

**Conditions:** In a contemporary operating environment given test, measurement, and diagnostic equipment (TMDE), maintenance personnel, and applicable references.

**Standards:** Managed the TMDE calibration program in accordance with applicable references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured necessary publications were available.	—	—
2. Reviewed and updated TMDE computer printout list.	—	—
3. Ensured preventive maintenance checks and services (PMCS) and inventory of all TMDE and auxiliary equipment are conducted, as required.	—	—
4. Ensured TMDE was turned in for calibration in accordance with computer printouts.	—	—

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

**References**

**Required**  
AR 750-43  
TB 43-180

**Related**

**Recon Terrain/Route  
091-CLT-3008**

**Conditions:** In a contemporary operational environment given a maintenance situation/operation order (OPORD), operational overlay, grid coordinates of destination, vehicle with personnel, and applicable references.

**Standards:** Performed a route and terrain reconnaissance and selected the most appropriate route to follow and the most appropriate location to set up a maintenance site in accordance with maintenance situation or OPORD and applicable references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured necessary equipment and publications were available.	—	—
2. Conducted a map reconnaissance of the terrain and route.	—	—
3. Selected personnel for reconnaissance team.	—	—
4. Conducted a route reconnaissance to determine best access to destination and to ensure safety of personnel and equipment.	—	—
5. Reconned terrain to determine suitability for maintenance site use, to determine best avenues of entry and exit, and to ensure safety of personnel and equipment.	—	—
6. Reported findings and conclusions to supervisors.	—	—

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

**References**

**Required**  
FM 4-30.3  
FM 5-170

**Related**

## Supervise Maintenance Operations

### 091-CLT-3009

**Conditions:** In a contemporary operational environment given maintenance personnel, equipment, maintenance facility/site, standing operating procedures (SOPs), and applicable references.

**Standards:** Established and maintained an effective maintenance shop operation in accordance with SOP and applicable references.

#### Performance Steps

1. Ensure unit maintenance procedures are in accordance with AR 750-1, DA Pamphlet 750-3, and local and major command (MACOM) policies.
  - a. Review unit SOPs for maintenance.
  - b. Inform unit personnel of changes in policy and new policy that impacts unit SOP.
2. Provide technical assistance to unit maintenance activities.
  - a. Inspect unit maintenance operations.
  - b. Identify shortcomings.
  - c. Make recommendations for corrective actions.
  - d. Provide training in maintenance procedures.
  - e. Provide training and technical assistance as needed for operations under extreme heat (up to 125 degrees F).
    - (1) Cooling systems. Check coolant level daily. Maintain coolant levels approximately two inches below the radiator overflow pipe if so equipped. Check radiator air passages for obstructions frequently. Check fan belt for proper tension. Check coolant temperature indicators frequently for any indication of overheating.
    - (2) Lubrication. Make sure that lubricants used are as specified for the prevailing ambient temperature in the current lubrication order.
    - (3) Fuel system. When filling the fuel tanks, allow sufficient space for fuel expansion.
    - (4) Batteries. Check electrolyte level frequently. Add distilled water as required to compensate for evaporation.
    - (5) Engine. Kept the external surface of the engine as clean as possible.
  - f. Provide training and technical assistance as needed for operations in dusty or sandy areas.
    - (1) General. If possible, provide shelter for the equipment. Use available natural barriers to shield the equipment from blowing dust or sand.
    - (2) Cleaning. Wipe dust and sand from the equipment frequently. When possible, thoroughly washed down with clean water.
    - (3) Engine. Shorten the service interval for the engine air cleaner and oil filter to compensate for intake of additional dust or dirt. Kept external surface of engine as clean as possible.
    - (4) Fuel systems. Drain sediment from fuel tanks, fuel strainers, and fuel filters frequently. Was particularly careful to prevent dust or dirt from entering the fuel tank/fuel system. Shorten the service intervals for the fuel filters appropriately.
    - (5) Lubrication. Lubrication intervals must be shortened appropriately. Use particular care to keep lubricants from becoming contaminated with dust or dirt.
3. Provide maintenance management to units.
  - a. Review reports (materiel condition status report [MCSR] and (unit level logistics system-ground [ULLS-G]).
  - b. Coordinate with higher-level maintenance activities.
  - c. Direct cross-leveling of maintenance assets/workloads.
  - d. Prioritize maintenance efforts of units.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Ensured unit maintenance procedures are in accordance with AR 750-1, DA Pamphlet 750-3, and local and major command (MACOM) policies.	—	—
2. Provided technical assistance to unit maintenance activities.	—	—
3. Provided maintenance management to units.	—	—

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

**References**

**Required**

- AR 385-10
- AR 385-40
- AR 385-55
- AR 600-55
- AR 700-138
- AR 700-4
- AR 710-2
- AR 725-50
- AR 735-5
- AR 750-1
- AR 750-43
- DA PAM 25-30
- DA PAM 710-2-1
- DA PAM 710-2-2
- DA PAM 750-1
- DA PAM 750-3
- DA PAM 750-8
- FM 4-30.3

**Related**

**Interpret Maintenance Operational Overlay**  
**091-CLT-3010**

**Conditions:** In a contemporary operational environment given an operational overlay, map, maintenance situation/operation order (OPORD), and applicable references.

**Standards:** Interpreted the maintenance operational overlay by identifying key features and elements of the area of operations in accordance with applicable references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured necessary references and materials were available.	—	—
2. Identified mapping symbols on the operational overlay.	—	—
3. Identified key features of the map and operational overlay.	—	—
4. Identified key elements of the area of operations on the map and operational overlay.	—	—
5. Updated the operational overlay, as necessary.	—	—

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

**References**

**Required**  
FM 1-02  
FM 4-30.3  
FM 5-170

**Related**

**Deploy Maintenance Support Teams**

**091-CLT-3011**

**Conditions:** In a contemporary operational environment given a request for maintenance support/maintenance situation, map, operational overlay, grid coordinates of destination, vehicles, equipment, maintenance personnel, FM 4-30.3, and other applicable references.

**Standards:** Deployed the maintenance support team in accordance with the maintenance situation or request for maintenance support and applicable references.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
1. Reviewed the request for maintenance support/maintenance situation.	—	—
2. Determined personnel and equipment requirements necessary to perform the mission.	—	—
3. Identified available resources for the support team, including personnel with applicable military occupational specialties (MOSs), vehicles, tools, test equipment, publications, repair parts, time, and facilities as necessary.	—	—
4. Determined requirements for defending the team.	—	—
5. Briefed the team on the mission.	—	—
6. Deployed the maintenance support team.	—	—

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

**References**

**Required**  
FM 4-30.3

**Related**  
FM 1-02  
FM 5-170

**Interpret a Standard Army Maintenance System (SAMS) Generated Maintenance Report  
091-CLT-3012**

**Conditions:** In a contemporary operational environment given a computer system or systems with Standard Army Maintenance System-Level 1 (SAMS-1) software, database of equipment files, SAMS operator, Automated Information Systems Manual (AISM) 18-L21-AHN-BUR-UM, AISM 18-L26-AHO-BUR-EM, DA Form 2407 (Maintenance Request), DA Pamphlet 750-8, and applicable references.

**Standards:** Supervised SAMS-1 functions of a direct support level maintenance shop in accordance with applicable references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured necessary equipment and publications were available.	—	—
2. Ensured SAMS operator was adequately trained.	—	—
3. Reviewed the SAMS-1 system and the flow of information to and from system interfaces.	—	—
4. Reviewed the purpose and use of SAMS-1 categories and codes.	—	—
5. Supervised the processing of maintenance requests (DA Form 2407).	—	—
6. Interpreted SAMS-1 reports to identify maintenance trends and problems.	—	—
7. Requested and interpreted ad hoc reports, as necessary.	—	—

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

**References**

**Required**

AISM 18-L21-AHN-BUR-UM  
AISM 18-L26-AHO-BUR-EM  
DA FORM 2407  
DA PAM 750-8

**Related**

**Manage the Unit Level Logistics System (ULLS)  
091-CLT-3013**

**Conditions:** In a contemporary operational environment given a computer system(s) with Unit Level Logistics System-Ground (ULLS-G) software, database of equipment files, associated Army Materiel Status System (AMSS) software, ULLS operator, and applicable references.

**Standards:** Supervised ULLS-G functions of a unit-level maintenance shop in accordance with applicable references.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
1. Ensured necessary equipment and references were available.	—	—
2. Ensured ULLS operator was properly trained.	—	—
3. Reviewed the ULLS flow of information to and from system interfaces.	—	—
4. Reviewed ULLS-G maintenance forms for accuracy.	—	—
5. Analyzed ULLS-G reports and data to identify maintenance trends and problems.	—	—
a. Document register.		
b. Prescribed load list (PLL) inventory report.		
c. Zero balance report.		
d. PLL excess management report.		
e. PLL inquiry.		
f. Non-mission-capable (NMC) report.		
6. Analyzed AMSS reports and data to identify maintenance trends and problems.	—	—
a. AMSS authorization report.		
b. Projected fully mission-capable (FMC) rates report.		
c. Equipment exception report.		
d. System status summary.		
e. Class IX failure data by administrative number.		
f. Rollup by equipment identification code (EIC).		
g. Rollup by unit identification code (UIC).		
h. NMC report.		

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

**References**

**Required**

- AR 710-2
- DA PAM 710-2-1

**Related**



**Manage the Unit Army Oil Analysis Program (AOAP)**  
**091-CLT-3014**

**Conditions:** In a contemporary operational environment given Automated Oil Analysis Log Printout, unit and higher headquarters AOAP standing operating procedures (SOPs) and policies, and applicable references.

**Standards:** Managed the unit AOAP in accordance with applicable references.

**Performance Steps**

1. Ensure necessary publications are available.
2. Review the objectives and policies of the AOAP.
3. Identify the responsibilities of key AOAP personnel.
4. Ensure sampling intervals and procedures were followed.
5. Ensure samples are processed in accordance with applicable references and SOPs.
6. Ensure lab results are processed in accordance with applicable references and SOPs and follow-up actions were completed.

**Performance Measures**

	<u>GO</u>	<u>NO-GO</u>
1. Ensured necessary publications were available.	—	—
2. Reviewed the objectives and policies of the AOAP.	—	—
3. Identified responsibilities of key AOAP personnel.	—	—
4. Ensured sampling intervals and procedures were followed.	—	—
5. Ensured samples were processed in accordance with applicable references and SOPs.	—	—
6. Ensured lab results were processed in accordance with applicable references and SOPs and follow-up actions were completed.	—	—

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

**References**

**Required**  
DA PAM 750-8  
TB 43-0211

**Related**

**Deploy Company Maintenance Team/Recovery Support Team  
091-CLT-3015**

**Conditions:** In a contemporary operational environment given maintenance situation or a request for maintenance support, map, operational overlay, grid coordinates of destination, vehicles, equipment, maintenance personnel, FM 1-02, FM 4-30.3, and FM 5-170.

**Standards:** Deployed the company maintenance team or recovery support team in accordance with the maintenance situation or request for maintenance support and applicable references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed the request for maintenance support or maintenance situation.	—	—
2. Determined personnel and equipment requirements necessary to perform the mission.	—	—
3. Identified available resources for the company maintenance team or recovery support team, including personnel with applicable military occupational specialties (MOSSs), vehicles, tools, test equipment, publications, repair parts, time, and facilities, as necessary.	—	—
4. Determined requirements for defending the team.	—	—
5. Briefed the team on the mission:	—	—
a. Reviewed the operational overlay.		
b. Conducted a map reconnaissance of the route and destination.		
6. Deployed the maintenance support team.	—	—

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

**References**

**Required**  
FM 1-02  
FM 4-30.3  
FM 5-170

**Related**

**Review the Army Materiel Status System (AMSS) Reports**  
**091-CLT-3016**

**Conditions:** In a contemporary operational environment given AMSS reports produced from a Unit Level Logistics System-Ground (ULLS-G) System, AR 710-2, and DA Pamphlet 710-2-1.

**Standards:** Analyzed AMSS reports and data to identify maintenance trends and problems in accordance with applicable references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured necessary ULLS equipment and references were available.	—	—
2. Analyzed AMSS reports and data to identify maintenance trends and problems.	—	—
a. AMSS authorization report.		
b. Projected fully mission-capable (FMC) rates report.		
c. Equipment exception report.		
d. System status summary.		
e. Class IX failure data by administrative number.		
f. Rollup by equipment identification code (EIC).		
g. Rollup by unit identification code (UIC).		
h. Non-mission-capable (NMC) report.		

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

**References**

**Required**

AR 710-2

DA PAM 710-2-1

**Related**

## Subject Area 10: TECHNICAL TASKS

**Perform Maintenance of the Compressor Assembly on a Refrigeration Unit**  
**091-52C-3001**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions. Equipment required: tool kit, refrigeration service; refrigeration units; required testing equipment; special tools; and other equipment and materials.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Determined maintenance action for compressor assembly on a refrigeration unit.	—	—
3. Ensured maintenance required was within shop capability/authorization.	—	—
4. Ensured proper tools and test equipment were available.	—	—
5. Identified repair parts to be requisitioned.	—	—
6. Assigned personnel to perform maintenance.	—	—
7. Ensured all safety precautions were followed.	—	—
8. Ensured maintenance procedures were in accordance with applicable publications.	—	—
9. Provided assistance if required.	—	—
10. Ensured operational test were performed.	—	—
11. Ensured The Army Maintenance Management System (TAMMS) forms were completed, as required.	—	—
12. Ensured tools and equipment were properly maintained.	—	—
13. Critiqued personnel on work performance.	—	—
14. Conducted an in-process inspection.	—	—
15. Performed a final inspection to ensure the compressor assembly was fully mission-capable.	—	—
16. Critiqued personnel on their job performance.	—	—
17. Ensured maintenance forms were completed as required.	—	—
18. Ensured tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were properly maintained.	—	—

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

**References**

**Required**

TM 9-4110-256-14  
TM 10-4130-237-14

**Related**

MOD REFRIG/AIR COND MAN

**Troubleshoot the Electrical System on a Recovery and Recycling Unit**  
**091-52C-3007**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions. Equipment required: tool kit, refrigeration service; air conditioning unit; required safety equipment; testing equipment; special tools; and other equipment materials.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Determined maintenance action electrical system on a recovery and recycling unit.	—	—
3. Ensured maintenance required is within shop capability/authorization.	—	—
4. Ensured proper tools and test equipment were available.	—	—
5. Identified repair parts to be requisitioned.	—	—
6. Assigned personnel to perform maintenance.	—	—
7. Ensured all safety precautions were followed.	—	—
8. Ensured maintenance procedures were in accordance with publications.	—	—
9. Provided assistance if required.	—	—
10. Ensured operational test was performed.	—	—
11. Ensured The Army Maintenance Management System (TAMMS) forms were completed, as required.	—	—
12. Ensured tools and equipment were properly maintained.	—	—
13. Provided assistance when necessary.	—	—
14. Critiqued personnel on work performance.	—	—
15. Ensured the electrical system was repaired in accordance with appropriate technical manuals and references.	—	—
16. Conducted an in-process inspection.	—	—
17. Performed a final inspection to ensure the electrical system was fully mission-capable.	—	—
18. Critiqued personnel on their job performance.	—	—
19. Ensured maintenance forms were completed as required.	—	—
20. Ensured tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were properly maintained.	—	—

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

**References**

**Required**

TM 9-4110-256-14

**Related**

MOD REFRIG/AIR COND MAN

**Troubleshoot the Fuel System on a Heater**  
**091-52C-3008**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions. Equipment required: tool kit; portable forced air heaters; required safety equipment; required testing equipment; special tools, and other additional equipment and materials.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Determined maintenance action in the fuel system on a heater.	—	—
3. Ensured maintenance required was within shop capability/authorization.	—	—
4. Ensured proper tools and test equipment were available.	—	—
5. Identified repair parts to be requisitioned.	—	—
6. Assigned personnel to perform maintenance.	—	—
7. Ensured all safety precautions were followed.	—	—
8. Ensured maintenance procedures were in accordance with applicable publications.	—	—
9. Provided assistance if necessary.	—	—
10. Ensured operational test was performed.	—	—
11. Ensured The Army Maintenance Management System (TAMMS) forms were completed, as required.	—	—
12. Ensured tools and equipment were properly maintained.	—	—
13. Critiqued personnel on work performance.	—	—
14. Ensured the fuel system was repaired in accordance with appropriate technical manuals and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the fuel system was fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were properly maintained.	—	—

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



**References**

**Required**

TM 5-4520-253-13

TM 5-4520-253-23P

**Related**

**Troubleshoot the Electrical System on a Heater**  
**091-52C-3009**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions. Equipment required: tool kit, portable forced air heaters; required safety equipment; required testing equipment; special tools, and other equipment and materials.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Determined maintenance action in the electrical system on a heater.	—	—
3. Ensured maintenance required was within shop capability/authorization.	—	—
4. Ensured proper tools and test equipment were available.	—	—
5. Identified repair parts to be requisitioned.	—	—
6. Assigned personnel to perform maintenance.	—	—
7. Ensured all safety precautions were followed.	—	—
8. Performed troubleshooting procedures.	—	—
9. Ensured maintenance procedures were in accordance with applicable publications.	—	—
10. Provided assistance if required.	—	—
11. Ensured operational test was performed.	—	—
12. Ensured The Army Maintenance Management System (TAMMS) forms were completed, as required.	—	—
13. Ensured tools and equipment were properly maintained.	—	—
14. Critiqued personnel on work performance.	—	—
15. Ensured the electrical system was repaired in accordance with appropriate technical manuals and references.	—	—
16. Conducted an in-process inspection.	—	—
17. Performed a final inspection to ensure the electrical system was fully mission-capable.	—	—
18. Critiqued personnel on their job performance.	—	—
19. Ensured maintenance forms were completed as required.	—	—
20. Ensured tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were properly maintained.	—	—

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

**References**

**Required**

TM 5-4520-253-13  
TM 5-4520-253-23P

**Related**

**Troubleshoot the Mechanical System on a Heater**  
**091-52C-3010**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions. Equipment required: tool kit; portable forced air heaters; required safety equipment; required testing equipment; special tools, and other equipment and materials.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Determined maintenance action in the mechanical system on a heater.	—	—
3. Ensured maintenance required is within shop capability/authorization.	—	—
4. Ensured proper tools and test equipment were available.	—	—
5. Identified repair parts to be requisitioned.	—	—
6. Assigned personnel to perform maintenance.	—	—
7. Ensured all safety precautions were followed.	—	—
8. Ensured maintenance procedures were in accordance with applicable publications.	—	—
9. Provided assistance if necessary.	—	—
10. Ensured operational test was performed.	—	—
11. Ensured The Army Maintenance Management System (TAMMS) forms were completed, as required.	—	—
12. Ensured tools and equipment were properly maintained.	—	—
13. Critiqued personnel on work performance.	—	—
14. Ensured the mechanical system was repaired in accordance with appropriate technical manuals and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the mechanical system was fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were properly maintained.	—	—

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

**References**

**Required**

TM 5-4520-253-13

TM 5-4520-253-23P

**Related**

**Troubleshoot the Air Purification System on a Bottle Cleaning and Charging Station**  
**091-52C-3011**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, a bottle cleaning and charging station, water flow chart, air flow chart, multimeter, necessary/additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting of the air purification system on a bottle cleaning and charging station in accordance with applicable technical publications. When the task was completed, the bottle cleaning and charging station was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the air purification system.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the air purification system.	—	—
8. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
9. Assembled the air purification system.	—	—
10. Identified repair parts and requisition, if required.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures were followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the air purification system was repaired in accordance with appropriate technical manuals and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the air purification system was fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 9-5855-252-12

TM 9-5855-252-34

**Related**

TM 9-5855-252-24P

**Troubleshoot the Cleaning System on a Bottle Cleaning and Charging Station**  
**091-52C-3012**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, a bottle cleaning and charging station, necessary tools, water flow chart, air flow chart, additional tools, equipment specified in technical manuals (TMs), repair parts, multimeter, and applicable maintenance forms and technical publications.

**Standards:** Performed Troubleshooting of the cleaning system on a bottle cleaning and charging station in accordance with applicable technical publications. When the task was completed, the bottle cleaning and charging station was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to repair/replace, and test the cleaning system.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the cleaning system.	—	—
8. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
9. Identified repair parts and requisition, if required.	—	—
10. Assembled the cleaning system.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures are followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the cleaning system was repaired in accordance with appropriate technical manuals and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the cleaning system was fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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



**References**

**Required**

TM 9-5855-252-12

TM 9-5855-252-34

**Related**

TM 9-5855-252-24P

**Troubleshoot the Charging Station on a Bottle Cleaning and Charging Station**  
**091-52C-3013**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, a bottle cleaning and charging station, necessary tools, water flow chart, air flow chart, additional tools, equipment specified in technical manuals (TMs), repair parts, multimeter, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting of the charging station on a bottle cleaning and charging station in accordance with applicable technical publications. When the task was completed, the bottle cleaning and charging station was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the charging station.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the charging station.	—	—
8. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
9. Identified repair parts and requisition, if required.	—	—
10. Assembled the charging station.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures were followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the charging station was repaired in accordance with appropriate technical manuals and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the charging station was fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 9-5855-252-12

TM 9-5855-252-34

**Related**

TM 9-5855-252-24P

**Troubleshoot the Compressor on a Bottle Cleaning and Charging Station**  
**091-52C-3014**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, a bottle cleaning and charging station, necessary tools, water flow chart, air flow chart, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting of the compressor on a bottle cleaning and charging station in accordance with applicable technical publications. When the task is completed the bottle cleaning and charging station was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the charging station.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the compressor.	—	—
8. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
9. Identified repair parts and requisitioned, if required.	—	—
10. Assembled the compressor.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures were followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the compressor was repaired in accordance with appropriate technical manuals and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the compressor was fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 9-5855-252-12  
TM 9-5855-252-34

**Related**

TM 9-5855-252-24P

**Troubleshoot the Motor Assemblies on a Bottle Cleaning and Charging Station**  
**091-52C-3015**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, a bottle cleaning and charging station, necessary tools, water flow chart, air flow chart, additional tools, equipment specified in technical manuals (TMs), repair parts, multimeter, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting of the motor assemblies on a bottle cleaning and charging station in accordance with applicable technical publications. When the task was completed, the bottle cleaning and charging station was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the motor assembly.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the motor assembly.	—	—
8. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
9. Identified repair parts and requisitioned, if required.	—	—
10. Assembled the motor assembly.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures were followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the motor assembly was repaired in accordance with appropriate technical manuals and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the motor assembly was fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 9-5855-252-12

TM 9-5855-252-34

**Related**

TM 9-5855-252-24P

**Troubleshoot the Electrical System on a Bottle Cleaning and Charging Station**  
**091-52C-3016**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, a bottle cleaning and charging station, necessary tools, water flow chart, air flow chart, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting of the electrical system on a bottle cleaning and charging station in accordance with applicable technical publications. When the task is completed, the bottle cleaning and charging station must be fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the electrical system.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
8. Identified repair parts and requisitioned, if required.	—	—
9. Assigned personnel to perform necessary repairs.	—	—
10. Ensured all safety precautions were followed.	—	—
11. Provided assistance when necessary.	—	—
12. Ensured the electrical system was repaired in accordance with appropriate technical manuals and references.	—	—
13. Conducted an in-process inspection.	—	—
14. Performed a final inspection to ensure the electrical system was fully mission-capable.	—	—
15. Critiqued personnel on their job performance.	—	—
16. Ensured maintenance forms were completed as required.	—	—
17. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References****Required**

TM 9-5855-252-12  
TM 9-5855-252-34

**Related**

TM 9-5855-252-24P



**Troubleshoot the Packaging System on a Bottle Cleaning and Charging Station**  
**091-52C-3017**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, a bottle cleaning and charging station necessary tools, water flow chart, air flow chart, additional tools, equipment specified in technical manuals (TMs), repair parts, multimeter, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting of the packaging system on a bottle cleaning and charging station in accordance with applicable technical publications. When the task was completed, the bottle cleaning and charging station was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the packaging system.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the packaging system.	—	—
8. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
9. Identified repair parts and requisitioned, if required.	—	—
10. Assembled the packaging system.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures were followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the packaging system was repaired in accordance with appropriate technical manuals and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the packaging system was fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 9-5855-252-12

TM 9-5855-252-34

**Related**

TM 9-5855-252-24P

**Perform Maintenance of the Pump Assembly on a 350-GPM Pump**  
**091-52C-3023**

**Conditions:** In a contemporary operational environment, given a 350-gallons per minute (GPM) pump, general mechanic's tool kit, TMDE, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed maintenance of the pump assembly on a 350-GPM pump in accordance with applicable technical publications. When the task was completed, the pump was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools were available to inspect, repair/replace, and test the pump assembly or replace pump assembly components.	—	—
5. Performed initial inspection.	—	—
6. Disassembled the pump assembly.	—	—
7. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
8. Identified repair parts and requisitioned, if required.	—	—
9. Assembled the pump assembly.	—	—
10. Assigned personnel to perform necessary repairs.	—	—
11. Ensured all safety precautions and procedures were followed.	—	—
12. Provided assistance when necessary.	—	—
13. Ensured the pump assembly is repaired in accordance with appropriate technical manuals and references.	—	—
14. Conducted an in-process inspection.	—	—
15. Performed a final inspection to ensure the pump assembly was fully mission-capable.	—	—
16. Critiqued personnel on their job performance.	—	—
17. Ensured maintenance forms were completed as required.	—	—
18. Ensured tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were properly maintained.	—	—

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

**References**

**Required**

TM 5-4520-256-14  
TM 10-4320-226-14  
TM 10-4320-343-14

**Related**

DA PAM 750-8

**Troubleshoot Electrical System on the 350-GPM Pump**  
**091-52C-3024**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, a 350-gallons per minute (GPM) pump, general mechanic's tool kit, multimeter, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting of the electrical system on a 350-GPM pump in accordance with applicable technical publications. When the task was completed, the pump was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured work was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured applicable tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the electrical system.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
8. Identified repair parts and requisitioned, if required.	—	—
9. Assigned personnel to perform necessary repairs.	—	—
10. Ensured all safety precautions and procedures were followed.	—	—
11. Provided assistance when necessary.	—	—
12. Ensured the 350-GPM pump electrical system was repaired in accordance with appropriate technical manuals and references.	—	—
13. Conducted an in-process inspection.	—	—
14. Performed a final inspection to ensure the 350-GPM pump electrical system was fully mission-capable.	—	—
15. Critiqued personnel on their job performance.	—	—
16. Ensured maintenance forms were completed as required.	—	—
17. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References****Required**

TM 5-4520-256-14

TM 10-4320-226-14

TM 10-4320-343-14

**Related**

DA PAM 750-8

**Troubleshoot Electrical System on a Smoke Generator**  
**091-52C-3025**

**Conditions:** In a contemporary operational environment, given a smoke generator, applicable references, tools and test equipment, and repair parts if needed.

**Standards:** Repaired the smoke generator systems and replaced or repaired their components in accordance with the applicable technical publications' procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Determined required maintenance action for the electrical system on a smoke generator.	—	—
3. Ensured maintenance required was within shop capability/authorization.	—	—
4. Ensured applicable technical publications were available.	—	—
5. Ensured proper tools and test equipment were available.	—	—
6. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the electrical system.	—	—
7. Identified repair parts to be requisitioned.	—	—
8. Performed initial inspection.	—	—
9. Assigned personnel to perform maintenance.	—	—
10. Ensured all safety precautions were followed.	—	—
11. Performed troubleshooting procedures.	—	—
12. Ensured maintenance procedures were in accordance with technical publications.	—	—
13. Provided assistance if necessary.	—	—
14. Selected and used appropriate tools and test equipment.	—	—
15. Ensured operational test were performed.	—	—
16. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
17. Performed a final inspection to ensure the electrical system was fully mission-capable.	—	—
18. Critiqued personnel on their job performance.	—	—
19. Ensured maintenance forms were completed as required.	—	—
20. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 3-1040-279-12&P

**Related**

DA PAM 750-8

**Perform Maintenance of the Fog Oil System on a Smoke Generator**  
**091-52C-3026**

**Conditions:** In a contemporary operational environment, given a smoke generator, applicable references, tools and test equipment, and repair parts if needed.

**Standards:** Repaired the smoke generator systems repaired and replaced their components in accordance with the applicable technical publications' procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Determined required maintenance action for the fog oil system on a smoke generator.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured maintenance required was within shop capability/authorization.	—	—
4. Ensured applicable technical publications were available.	—	—
5. Ensured proper tools and test equipment were available.	—	—
6. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the fog oil system.	—	—
7. Identified repair parts to be requisitioned.	—	—
8. Selected and used appropriate references.	—	—
9. Performed initial inspection.	—	—
10. Inspected fog oil system.	—	—
11. Provided assistance if necessary.	—	—
12. Repaired or replaced damaged or defective components.	—	—
13. Ensured operational test was performed.	—	—
14. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
15. Ensured the fog oil system was repaired in accordance with appropriate technical manuals and references.	—	—
16. Conducted an in-process inspection.	—	—
17. Performed a final inspection to ensure the fog oil system was fully mission-capable.	—	—
18. Critiqued personnel on their job performance.	—	—
19. Ensured maintenance forms were completed as required.	—	—
20. Ensured tool, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 3-1040-279-12&P

**Related**

DA PAM 750-8



**Perform Maintenance of the Air System on a Smoke Generator  
091-52C-3027**

**Conditions:** In a contemporary operational environment, given a smoke generator, applicable references, tools and test equipment, and repair parts if needed.

**Standards:** Repaired the smoke generator systems replaced or repaired their components in accordance with the applicable technical publications' procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Determined required maintenance action for the air system on a smoke generator.	—	—
3. Ensured task was within shop capability/authorization.	—	—
4. Ensured maintenance required was within shop capability/authorization.	—	—
5. Ensured applicable technical publications were available.	—	—
6. Ensured proper tools and test equipment were available.	—	—
7. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the air system.	—	—
8. Identified repair parts to be requisitioned.	—	—
9. Performed initial inspection.	—	—
10. Selected and used appropriate references.	—	—
11. Disassembled the air system.	—	—
12. Inspected air system.	—	—
13. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
14. Provided assistance if necessary.	—	—
15. Repaired or replaced damaged or defective components.	—	—
16. Ensured operational test was performed.	—	—
17. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
18. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**  
TM 3-1040-279-12&P

**Related**  
DA PAM 750-8

**Troubleshoot the Fuel System on a Smoke Generator**  
**091-52C-3028**

**Conditions:** In a contemporary operational environment, given a smoke generator, applicable references, tools and test equipment, and repair parts if needed.

**Standards:** Repaired the smoke generator systems and replaced or repaired their components in accordance with the applicable technical publications' procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Determined required maintenance action for the fuel system on a smoke generator.	—	—
3. Ensured task was within shop capability/authorization.	—	—
4. Ensured maintenance required was within shop capability/authorization.	—	—
5. Ensured applicable technical publications were available.	—	—
6. Ensured proper tools and test equipment were available.	—	—
7. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the fuel system.	—	—
8. Identified repair parts to be requisitioned.	—	—
9. Performed initial inspection.	—	—
10. Selected and used appropriate references.	—	—
11. Performed troubleshooting procedures.	—	—
12. Inspected fuel system.	—	—
13. Disassembled the fuel system.	—	—
14. Provided assistance if necessary.	—	—
15. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
16. Repaired or replaced damaged or defective components.	—	—
17. Identified repair parts and requisitioned, if required.	—	—
18. Ensured operational test was performed.	—	—
19. Assembled the fuel system.	—	—
20. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—

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

**References**

**Required**

TM 3-1040-279-12&P

**Related**

DA PAM 750-8

**Perform Maintenance of the Pulse Jet Engine System on a Smoke Generator**  
**091-52C-3029**

**Conditions:** In a contemporary operational environment, given a smoke generator, applicable references, tools and test equipment, and repair parts if needed.

**Standards:** Repaired the smoke generator systems and replaced or repaired their components in accordance with the applicable technical publications' procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Determined required maintenance action for the pulse jet engine system on a smoke generator.	—	—
3. Ensured task was within shop capability/authorization.	—	—
4. Ensured maintenance required was within shop capability/authorization.	—	—
5. Ensured applicable technical publications were available.	—	—
6. Ensured proper tools and test equipment were available.	—	—
7. Identified repair parts to be requisitioned.	—	—
8. Performed initial inspection.	—	—
9. Selected and used appropriate references.	—	—
10. Disassembled the pulse jet system.	—	—
11. Inspected pulse jet engine system.	—	—
12. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
13. Provided assistance if necessary.	—	—
14. Identified repair parts and requisitioned, if required.	—	—
15. Repaired or replaced damaged or defective components.	—	—
16. Ensured operational test was performed.	—	—
17. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
18. Ensured tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were properly maintained.	—	—

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

**References**

**Required**  
TM 3-1040-279-12&P

**Related**  
DA PAM 750-8

**Troubleshoot Electrical System on a 12 CFM ABC-M7A1 Filter Unit**  
**091-52C-3030**

**Conditions:** In a contemporary operational environment, given a collective protective shelter system, applicable references, tools and test equipment, and repair parts if needed.

**Standards:** Maintained the protective shelter system and replaced or repaired its components in accordance with the applicable technical publications' procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Determined required maintenance action for the electrical system on a 12 cubic feet per minute (CFM) ABC-M7A1 Filter Unit.	—	—
2. Reviewed work request.	—	—
3. Ensured task was within shop capability/authorization.	—	—
4. Ensured maintenance required was within shop capability/authorization.	—	—
5. Ensured applicable technical publications are available.	—	—
6. Ensured proper tools and test equipment were available.	—	—
7. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the electrical system.	—	—
8. Identified repair parts to be requisitioned.	—	—
9. Performed initial inspection.	—	—
10. Selected and used appropriate references.	—	—
11. Provided assistance if necessary.	—	—
12. Performed troubleshooting procedures.	—	—
13. Repaired or replaced damaged or defective components.	—	—
14. Ensured operational test was performed.	—	—
15. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
16. Ensured all safety precautions and procedures were followed.	—	—
17. Provided assistance when necessary.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**  
TM 3-4240-201-13

**Related**  
DA PAM 750-8

**Perform Maintenance of the Washer Assembly on a Laundry Unit**  
**091-52C-3035**

**Conditions:** In a contemporary operational environment, given an M85-100 laundry unit washer, general mechanic's tool kit, multimeter, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed maintenance of the washer assembly on a laundry unit in accordance with applicable technical publications. When the task was completed, the laundry unit was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the washer assembly.	—	—
5. Performed initial inspection.	—	—
6. Disassembled the washer assembly.	—	—
7. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
8. Identified repair parts and requisitioned, if required.	—	—
9. Assembled the washer assembly.	—	—
10. Assigned personnel to perform necessary repairs.	—	—
11. Ensured all safety precautions and procedures were followed.	—	—
12. Provided assistance when necessary.	—	—
13. Ensured the washer assembly was repaired in accordance with appropriate TMs and references.	—	—
14. Conducted an in-process inspection.	—	—
15. Performed a final inspection to ensure the washer assembly was fully mission-capable.	—	—
16. Critiqued personnel on their job performance.	—	—
17. Ensured maintenance forms were completed as required.	—	—
18. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References****Required**

TM 10-3510-222-10  
TM 10-3510-222-24

**Related**

DA PAM 750-8  
LO 10-3510-220-12

**Perform Maintenance of the Air Compressor Assembly on a Laundry Unit  
091-52C-3037**

**Conditions:** In a contemporary operational environment, given an M85-100 laundry/bath unit air compressor, general mechanic's tool kit, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed maintenance of the air compressor assembly on a laundry unit in accordance with applicable technical publications. When the task was completed, the laundry unit was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools and equipment were available to inspect, repair/replace, and test the air compressor assembly.	—	—
5. Performed initial inspection.	—	—
6. Disassembled the air compressor assembly.	—	—
7. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
8. Identified repair parts and requisitioned, if required.	—	—
9. Assembled the air compressor assembly.	—	—
10. Assigned personnel to perform necessary repairs.	—	—
11. Ensured all safety precautions and procedures were followed.	—	—
12. Provided assistance when necessary.	—	—
13. Ensured the air compressor assembly was repaired in accordance with appropriate TMs and references.	—	—
14. Conducted an in-process inspection.	—	—
15. Performed a final inspection to ensure the air compressor assembly was fully mission-capable.	—	—
16. Critiqued personnel on their job performance.	—	—
17. Ensured maintenance forms were completed as required.	—	—
18. Ensured tools and equipment were properly maintained.	—	—

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

**References**

**Required**  
TM 10-3510-222-24

**Related**  
DA PAM 750-8  
LO 10-3510-220-12  
TM 10-3510-222-10

**Perform Maintenance of the Extractor Assembly on a Laundry Unit**  
**091-52C-3038**

**Conditions:** In a contemporary operational environment, given an M85-100 laundry unit extractor, general mechanic's tool kit, multimeter, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed maintenance of the extractor assembly on a laundry unit in accordance with applicable technical publications. When the task was completed, the laundry unit was fully mission-capable.

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the extractor assembly.	—	—
5. Performed initial inspection.	—	—
6. Disassembled the extractor assembly.	—	—
7. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
8. Identified repair parts and requisitioned, if required.	—	—
9. Assembled the extractor assembly.	—	—
10. Assigned personnel to perform necessary repairs.	—	—
11. Ensured all safety precautions and procedures were followed.	—	—
12. Provided assistance when necessary.	—	—
13. Ensured the extractor assembly was repaired in accordance with appropriate TMs and references.	—	—
14. Conducted an in-process inspection.	—	—
15. Performed a final inspection to ensure the extractor assembly was fully mission-capable.	—	—
16. Critiqued personnel on their job performance.	—	—
17. Ensured maintenance forms were completed as required.	—	—
18. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References****Required**

TM 10-3510-222-10  
TM 10-3510-222-24

**Related**

DA PAM 750-8  
LO 10-3510-220-12



**Perform Maintenance of the Water Heater Assembly on a Laundry Unit/Bath Unit**  
**091-52C-3039**

**Conditions:** In a contemporary operational environment, given an M85-100 laundry/bath unit, general mechanic's tool kit, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed maintenance of the water heater assembly on a laundry unit/bath unit in accordance with applicable technical publications. When the task was completed, the laundry unit/bath unit was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools and equipment were available to inspect, repair/replace, and test the water heater assembly.	—	—
5. Performed initial inspection.	—	—
6. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
7. Identified repair parts and requisitioned, if required.	—	—
8. Assigned personnel to perform necessary repairs.	—	—
9. Ensured all safety procedures were followed.	—	—
10. Provided assistance when necessary.	—	—
11. Ensured the water heating assembly was repaired in accordance with appropriate TMs and references.	—	—
12. Conducted an in-process inspection.	—	—
13. Performed a final inspection to ensure the water heater assembly was fully mission-capable.	—	—
14. Critiqued personnel on their job performance.	—	—
15. Ensured maintenance forms were completed as required.	—	—
16. Ensured tools, equipment and test, measurement, and diagnostic equipment (TMDE) were properly maintained.	—	—

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

**References**

**Required**

TM 10-3510-222-10  
TM 10-3510-222-24

**Related**

DA PAM 750-8  
LO 10-3510-220-12

**Perform Maintenance of the Dryer Tumbler Assembly on a Laundry Unit**  
**091-52C-3040**

**Conditions:** In a contemporary operational environment, given an M85-100 laundry unit dryer tumbler, general mechanic's tool kit, multimeter, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed maintenance of the dryer tumbler assembly on a laundry unit in accordance with applicable technical publications. When the task was completed, the laundry unit was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Ensured task was within shop capability/authorization.	—	—
2. Ensured applicable technical publications were available.	—	—
3. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the dryer tumbler assembly.	—	—
4. Performed initial inspection.	—	—
5. Performed troubleshooting procedures.	—	—
6. Disassembled the dryer tumbler assembly.	—	—
7. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
8. Identified repair parts and requisitioned, if required.	—	—
9. Assembled the dryer tumbler assembly.	—	—
10. Assigned personnel to perform necessary repairs.	—	—
11. Ensured all safety precautions and procedures were followed.	—	—
12. Provided assistance when necessary.	—	—
13. Ensured the dryer tumbler assembly was repaired in accordance with appropriate TMs and references.	—	—
14. Conducted an in-process inspection.	—	—
15. Performed a final inspection to ensure the dryer tumbler assembly was fully mission-capable.	—	—
16. Critiqued personnel on their job performance.	—	—
17. Ensured maintenance forms were completed as required.	—	—
18. Ensured tools, equipment, and TMDE are properly maintained.	—	—

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

**References****Required**

TM 10-3510-222-10  
TM 10-3510-222-24

**Related**

DA PAM 750-8  
LO 10-3510-220-12

**Perform Maintenance of the Water Pump and Motor Assembly on a Laundry Unit/Bath Unit  
091-52C-3041**

**Conditions:** In a contemporary operational environment, given an M85-100 laundry/bath unit, general mechanic's tool kit, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed maintenance of the water pump and motor assembly on a laundry unit/bath unit in accordance with applicable technical publications. When the task was completed, the laundry unit/bath unit was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools and equipment were available to inspect, repair/replace, and test the water pump and motor assembly.	—	—
5. Performed initial inspection.	—	—
6. Disassembled the water pump and motor assembly.	—	—
7. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
8. Identified repair parts and requisitioned, if required.	—	—
9. Assembled the water pump and motor assembly.	—	—
10. Assigned personnel to perform necessary repairs.	—	—
11. Ensured all safety precautions and procedures were followed.	—	—
12. Provided assistance when necessary.	—	—
13. Ensured the water pump and motor assembly was repaired in accordance with appropriate TMs and references.	—	—
14. Conducted an in-process inspection.	—	—
15. Performed a final inspection to ensure the water pump and motor assembly was fully mission-capable.	—	—
16. Critiqued personnel on their job performance.	—	—
17. Ensured maintenance forms were completed as required.	—	—
18. Ensured tools and equipment were properly maintained.	—	—

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

**References**

**Required**

TM 10-3510-222-10  
TM 10-3510-222-24

**Related**

DA PAM 750-8  
LO 10-3510-220-12

**Perform Maintenance of the Burner on an M-17 Decontaminating Apparatus**  
**091-52C-3044**

**Conditions:** In a contemporary operational environment and with minimum supervision, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Determined required maintenance action for the burner.	—	—
3. Ensured task was within shop capability/authorization.	—	—
4. Selected and used appropriate references.	—	—
5. Ensured maintenance required was within shop capability/authorization.	—	—
6. Ensured applicable technical publications were available.	—	—
7. Ensured proper tools and test equipment were available.	—	—
8. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the burner.	—	—
9. Identified repair parts to be requisitioned.	—	—
10. Performed initial inspection.	—	—
11. Disassembled the burner.	—	—
12. Assigned personnel to perform maintenance.	—	—
13. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
14. Ensured all safety precautions were followed.	—	—
15. Ensured maintenance procedures were in accordance with technical publications.	—	—
16. Identified repair parts and requisition, if required.	—	—
17. Provided assistance if necessary.	—	—
18. Assembled the burner.	—	—
19. Assigned personnel to perform necessary repairs.	—	—
20. Ensured operational test was performed.	—	—
21. Ensured The Army Maintenance Management System (TAMMS) forms are completed, as required.	—	—
22. Ensured tools and equipment are properly maintained.	—	—

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

**References**

**Required**

TM 3-4230-228-10

**Related**

**Troubleshoot Electrical System on the M-17 Decontaminating Apparatus**  
**091-52C-3045**

**Conditions:** In a contemporary operational environment and with minimum supervision, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Determined required maintenance action for the electrical system.	—	—
3. Ensured task was within shop capability/authorization.	—	—
4. Selected and used appropriate references.	—	—
5. Ensured applicable technical publications were available.	—	—
6. Ensured maintenance required was within shop capability/authorization.	—	—
7. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the electrical system.	—	—
8. Performed initial inspection.	—	—
9. Ensured proper tools and test equipment were available.	—	—
10. Assigned personnel to perform maintenance.	—	—
11. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
12. Ensured all safety precautions were followed.	—	—
13. Identified repair parts and requisition, if required.	—	—
14. Ensured maintenance procedures were in accordance with technical publications.	—	—
15. Provided assistance if necessary.	—	—
16. Ensured operational test was performed.	—	—
17. Ensured The Army Maintenance Management System (TAMMS) forms were completed, as required.	—	—
18. Ensured tools and equipment were properly maintained.	—	—

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

**References**

**Required**

TM 3-4230-218-12&P  
 TM 3-4230-218-30&P

**Related**

**Perform Maintenance of the Water Pump Assembly on an M-17 Decontaminating Apparatus  
091-52C-3046**

**Conditions:** In a contemporary operational environment and with minimum supervision, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Performed this task in accordance with listed references, ensuring that all applicable safety precautions were followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Determined required maintenance action for the water pump assembly.	—	—
2. Selected and used appropriate references.	—	—
3. Ensured maintenance required was within shop capability/authorization.	—	—
4. Ensured proper tools and test equipment were available.	—	—
5. Identified repair parts to be requisitioned.	—	—
6. Assigned personnel to perform maintenance.	—	—
7. Ensured all safety precautions were followed.	—	—
8. Ensured maintenance procedures were in accordance with technical publications.	—	—
9. Provided assistance if necessary.	—	—
10. Ensured operational test were performed.	—	—
11. Ensured The Army Maintenance Management System (TAMMS) forms were completed, as required.	—	—
12. Ensured tools and equipment were properly maintained.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the water pump assembly was repaired in accordance with appropriate technical manuals (TMs) and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the water pump assembly was fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were properly maintained.	—	—

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

**References**

**Required**

TM 3-4230-218-12&P  
TM 3-4230-218-30&P

**Related**



**Perform Maintenance of the Water System on a Reverse Osmosis Water Purification Unit  
091-52C-3053**

**Conditions:** In a contemporary operational environment, given a reverse osmosis-type water purification system, applicable references, tools and test equipment, and repair parts if necessary.

**Standards:** Repaired the reverse osmosis water purification system and repaired or replaced its components replaced in accordance with the applicable technical publications' procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Determined required maintenance action for the pump assembly.	—	—
2. Selected and used appropriate references.	—	—
3. Ensured maintenance required is within shop capability/authorization.	—	—
4. Ensured proper tools and test equipment were available.	—	—
5. Performed initial inspection.	—	—
6. Identified repair parts to be requisitioned.	—	—
7. Assigned personnel to perform maintenance.	—	—
8. Ensured all safety precautions were followed.	—	—
9. Ensured maintenance procedures were in accordance with technical publications.	—	—
10. Provided assistance if necessary.	—	—
11. Ensured operational test is performed.	—	—
12. Ensured tools and equipment were properly maintained.	—	—
13. Selected and used appropriate references.	—	—
14. Selected and used appropriate tools and test equipment.	—	—
15. Inspected system components.	—	—
16. Repaired water purification unit reverse osmosis components as required.	—	—
17. Replaced water purification unit reverse osmosis components as required.	—	—
18. Test-operated equipment.	—	—
19. Ensured The Army Maintenance Management System (TAMMS) forms were completed, as required.	—	—

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

**References**

**Required**

DA PAM 750-8  
TM 10-4610-215-10  
TM 10-4610-215-24  
TM 10-4610-232-12  
TM 10-4610-232-34  
TM 10-4610-239-10  
TM 10-4610-239-24

**Related**

**Perform Maintenance of the Water Purification Air System on a Reverse Water Purification Unit  
091-52C-3054**

**Conditions:** In a contemporary operational environment, given a reverse osmosis-type water purification system, applicable references, tools and test equipment, and repair parts, if necessary.

**Standards:** Repaired the reverse osmosis water purification system and repaired or replaced its components in accordance with the applicable technical publications' procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Determined required maintenance action for the pump assembly.	—	—
2. Selected and used appropriate references.	—	—
3. Ensured maintenance required was within shop capability/authorization.	—	—
4. Ensured proper tools and test equipment were available.	—	—
5. Identified repair parts to be requisitioned.	—	—
6. Disassembled the water purification air system.	—	—
7. Assigned personnel to perform maintenance.	—	—
8. Ensured all safety precautions were followed.	—	—
9. Ensured maintenance procedures were in accordance with technical publications.	—	—
10. Provided assistance if necessary.	—	—
11. Ensured operational test was performed.	—	—
12. Ensured The Army Maintenance Management System (TAMMS) forms were completed, as required.	—	—
13. Ensured tools and equipment were properly maintained.	—	—
14. Selected and used appropriate references.	—	—
15. Selected and used appropriate tools and test equipment.	—	—
16. Inspected system components.	—	—
17. Repaired water purification unit reverse osmosis components as required.	—	—
18. Replaced water purification unit reverse osmosis components as required.	—	—
19. Test-operated equipment.	—	—
20. Completed TAMMS forms as required.	—	—

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

**References**

**Required**

TM 10-4610-215-10  
TM 10-4610-215-24  
TM 10-4610-232-12  
TM 10-4610-232-34  
TM 10-4610-239-10  
TM 10-4610-239-24

**Related**

**Troubleshoot the Electrical System on a Reverse Osmosis Water Purification Unit  
091-52C-3055**

**Conditions:** In a contemporary operational environment, given a reverse osmosis-type water purification system, applicable references, tools and test equipment, and repair parts, if necessary.

**Standards:** Repaired the reverse osmosis water purification system and repaired or replaced its components in accordance with the applicable technical publications' procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Determined required maintenance action for the pump assembly.	—	—
2. Selected and used appropriate references.	—	—
3. Ensured maintenance required was within shop capability/authorization.	—	—
4. Ensured proper tools and test equipment were available.	—	—
5. Identified repair parts to be requisitioned.	—	—
6. Assigned personnel to perform maintenance.	—	—
7. Ensured all safety precautions were followed.	—	—
8. Ensured maintenance procedures were in accordance with technical publications.	—	—
9. Provided assistance if necessary.	—	—
10. Ensured operational test was performed.	—	—
11. Ensured The Army Maintenance Management System (TAMMS) forms were completed, as required.	—	—
12. Ensured tools and equipment were properly maintained.	—	—
13. Selected and used appropriate references.	—	—
14. Selected and used appropriate tools and test equipment.	—	—
15. Inspected system components.	—	—
16. Repaired water purification unit reverse osmosis components as required.	—	—
17. Replaced water purification unit reverse osmosis components as required.	—	—
18. Test-operated equipment.	—	—
19. Ensured maintenance forms were completed as required.	—	—
20. Completed TAMMS forms as required.	—	—
21. Ensured tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were properly maintained.	—	—

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

**References**

**Required**

TM 10-4610-215-10  
TM 10-4610-215-24  
TM 10-4610-232-12  
TM 10-4610-232-34  
TM 10-4610-239-10  
TM 10-4610-239-24

**Related**

**Perform Maintenance of the Water Distribution System on a Reverse Osmosis Water Purification Unit**

**091-52C-3056**

**Conditions:** In a contemporary operational environment, given a 3,000-gallons per hour (GPH) reverse osmosis water purification unit (ROWPU), general mechanic's tools kit, multimeter, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed maintenance of the water distribution system on a ROWPU in accordance with applicable technical publications. When the task was completed, the ROWPU was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the water distribution system.	—	—
5. Disassembled the water distribution system.	—	—
6. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
7. Identified repair parts and requisitioned, if required.	—	—
8. Assembled the water distribution system.	—	—
9. Assigned personnel to perform necessary repairs.	—	—
10. Ensured all safety precautions and procedures were followed.	—	—
11. Provided assistance when necessary.	—	—
12. Ensured the water distribution system was repaired in accordance with appropriate TMs and references.	—	—
13. Conducted an in-process inspection.	—	—
14. Performed a final inspection to ensure the water distribution system was fully mission-capable.	—	—
15. Critiqued personnel on their job performance.	—	—
16. Ensured maintenance forms were completed as required.	—	—
17. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 10-4610-215-10  
TM 10-4610-215-24  
TM 10-4610-232-12  
TM 10-4610-232-34  
TM 10-4610-239-10  
TM 10-4610-239-24

**Related**



**Troubleshoot Vapor System on a Refrigeration Unit/Air Conditioner**  
**091-52C-3062**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, a commercial reach-in refrigerator (McCall), commercial reach-in refrigerator (Kessel), F 10,000 RE unit, refrigeration and air conditioning tool kit, multimeter, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting on the vapor system on a refrigeration unit/air conditioner in accordance with applicable technical publications. When the task was completed, the refrigeration unit/air conditioner was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the vapor system.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
8. Identified repair parts and requisitioned, if required.	—	—
9. Assigned personnel to perform necessary repairs.	—	—
10. Ensured all safety precautions were followed.	—	—
11. Provided assistance when necessary.	—	—
12. Ensured the vapor system was repaired in accordance with appropriate TMs and references.	—	—
13. Conducted an in-process inspection.	—	—
14. Performed a final inspection to ensure the vapor system was fully mission-capable.	—	—
15. Critiqued personnel on their job performance.	—	—
16. Ensured maintenance forms were completed as required.	—	—
17. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

DA FORM 5988-E  
TM 5-4120-339-14  
TM 5-4120-359-14  
TM 5-4120-384-14  
TM 5-4120-386-14  
TM 5-4120-393-14  
TM 9-4120-371-14  
TM 9-4120-378-14  
TM 9-4120-385-14  
TM 9-4120-389-14

**Related**

DA FORM 2404

**Troubleshoot Electrical System on a Refrigeration Unit/Air Conditioner**  
**091-52C-3063**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, a commercial reach-in refrigerator (McCall), commercial reach-in refrigerator (Kessel), F 10,000 RE unit, refrigeration and air conditioning tool kit, additional tools, equipment specified in technical manuals (TMs), repair parts, multimeter, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting of the electrical system on a refrigeration unit/air conditioner in accordance with applicable technical publications. When the task was completed, the refrigeration unit/air conditioner was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the electrical system.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
8. Identified repair parts and requisitioned, if required.	—	—
9. Assigned personnel to perform necessary repairs.	—	—
10. Ensured all safety precautions and procedures were followed.	—	—
11. Provided assistance when necessary.	—	—
12. Ensured the electrical system was repaired in accordance with appropriate TMs and references.	—	—
13. Conducted an in-process inspection.	—	—
14. Performed a final inspection to ensure the electrical system was fully mission-capable.	—	—
15. Critiqued personnel on their job performance.	—	—
16. Ensured maintenance forms were completed as required.	—	—
17. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

DA FORM 2404  
DA FORM 5988-E  
TM 5-4120-339-14  
TM 5-4120-359-14  
TM 5-4120-377-14  
TM 5-4120-384-14  
TM 5-4120-386-14  
TM 5-4120-393-14  
TM 9-4110-256-14  
TM 9-4120-371-14  
TM 9-4120-378-14  
TM 9-4120-385-14  
TM 9-4120-389-14  
TM 10-4130-237-14

**Related**

MOD REFRIG/AIR COND MAN

**Troubleshoot Mechanical System on a Refrigeration Unit**  
**091-52C-3064**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, a commercial reach-in refrigerator (McCall), commercial reach-in refrigerator (Kessel), F 10,000 RE unit, refrigeration and air conditioning tool kit, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting of the mechanical system on a refrigeration unit in accordance with applicable technical publications. When the task was completed, the refrigeration unit/air conditioner was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools and test equipment were available to inspect, repair/replace, and test the mechanical system.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
8. Identified repair parts and requisitioned, if required.	—	—
9. Assigned personnel to perform necessary repairs.	—	—
10. Ensured all safety precautions and procedures were followed.	—	—
11. Provided assistance when necessary.	—	—
12. Ensured the mechanical system was repaired in accordance with appropriate TMs and references.	—	—
13. Conducted an in-process inspection.	—	—
14. Performed a final inspection to ensure the mechanical system was fully mission-capable.	—	—
15. Critiqued personnel on their job performance.	—	—
16. Ensured maintenance forms were completed as required.	—	—
17. Ensured tools and equipment were properly maintained.	—	—

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

**References**

**Required**

TM 9-4110-256-14  
TM 9-8000  
TM 10-4130-237-14

**Related**

TC 9-62  
MOD REFRIG/AIR COND MAN

**Troubleshoot the Compressor, Air Reciprocating, 15 CFM on a Halon Recovery/Recharger Unit  
091-52C-3065**

**Conditions:** In a contemporary operational environment, given a reverse osmosis-type water purification system, applicable references, tools and test equipment, and repair parts if necessary.

**Standards:** The reverse osmosis water purification system must be repaired and its components repaired or replaced in accordance with the applicable technical publications' procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Determined required maintenance action for the pump assembly.	—	—
2. Reviewed work request.	—	—
3. Ensured task is within shop capability/authorization.	—	—
4. Selected and used appropriate references.	—	—
5. Ensured applicable technical publications are available.	—	—
6. Ensured maintenance required is within shop capability/authorization.	—	—
7. Ensured proper tools and test equipment are available.	—	—
8. Ensured proper tools and equipment are available to inspect, repair/replace, and test the compressor, air reciprocating, 15 cubic feet per minute (CFM).	—	—
9. Identified repair parts to be requisitioned.	—	—
10. Performed initial inspection.	—	—
11. Assigned personnel to perform maintenance.	—	—
12. Performed troubleshooting procedures.	—	—
13. Ensured all safety precautions are followed.	—	—
14. Disassembled the compressor, air reciprocating, 15 CFM.	—	—
15. Diagnosed fault(s) and determine maintenance action to be performed.	—	—
16. Ensured maintenance procedures are in accordance with technical publications.	—	—
17. Provided assistance if necessary.	—	—
18. Ensured operational test is performed.	—	—
19. Ensured The Army Maintenance Management System (TAMMS) forms are completed, as required.	—	—
20. Ensured tools and equipment are properly maintained.	—	—

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

**References**

**Required**

TM 5-4310-373-14

TM 5-4310-373-24P

**Related**

TM 5-4210-218-13&P



**Troubleshoot the Halon/DPSU Recovery/Recharger Unit**  
**091-52C-3066**

**Conditions:** In a contemporary operational environment, given a reverse osmosis-type water purification system, applicable references, tools and test equipment, and repair parts if necessary.

**Standards:** The reverse osmosis water purification system must be repaired and its components repaired or replaced in accordance with the applicable technical publications' procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task is within shop capability/authorization.	—	—
3. Ensured applicable technical publications are available.	—	—
4. Ensured proper tools and equipment are available to inspect, repair/replace, and test the Halon/DPSU recovery/recharger unit(s).	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the Halon/DPSU recovery/recharger unit(s).	—	—
8. Diagnosed fault(s) and determine maintenance action to be performed.	—	—
9. Identified repair parts and requisition, if required.	—	—
10. Assembled the Halon/DPSU recovery/recharger unit(s).	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures are followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the Halon/DPSU recovery/recharger unit(s) are repaired in accordance with appropriate technical manuals and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the Halon/DPSU recovery/recharger unit(s) are fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms are completed as required.	—	—
19. Ensured tools and equipment are properly maintained.	—	—

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

**References**

**Required**

TM 5-4210-218-13&P

**Related**

TM 5-4310-373-14

TM 5-4310-373-24P

**Troubleshoot the Transfer Pump on a Halon Recovery/Recharger Unit**  
**091-52C-3067**

**Conditions:** In a contemporary operational environment and with minimum supervision, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Soldier must perform this task in accordance with listed references, ensuring that all applicable safety precautions are followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task is within shop capability/authorization.	—	—
3. Ensured applicable technical publications are available.	—	—
4. Ensured proper tools and equipment are available to inspect, repair/replace, and test the transfer pump.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the transfer pump.	—	—
8. Diagnosed fault(s) and determine maintenance action to be performed.	—	—
9. Identified repair parts and requisition, if required.	—	—
10. Assembled the transfer pump.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures are followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the transfer pump is repaired in accordance with appropriate technical manuals (TMs) and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the transfer pump is fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms are completed as required.	—	—
19. Ensured tools and equipment are properly maintained.	—	—

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

**References**

**Required**

TM 5-4210-218-13&P

**Related**

TM 5-4310-373-14

TM 5-4310-373-24P

**Perform Maintenance on the Engine Assembly on a 350-GPM Pump**  
**091-52C-3068**

**Conditions:** In a contemporary operational environment and with minimum supervision, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Soldier must perform this task in accordance with listed references, ensuring that all applicable safety precautions are followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task is within shop capability/authorization.	—	—
3. Ensured applicable technical publications are available.	—	—
4. Ensured proper tools, equipment, and TMDE are available to inspect, repair/replace, and test the engine assembly on a 350-gallons per minute (GPM) pump.	—	—
5. Performed initial inspection.	—	—
6. Diagnosed fault(s) and determine maintenance action to be performed.	—	—
7. Identified repair parts and requisition, if required.	—	—
8. Assigned personnel to perform necessary repairs.	—	—
9. Ensured all safety precautions and procedures are followed.	—	—
10. Provided assistance when necessary.	—	—
11. Ensured the engine assembly on the 350-GPM pump is repaired in accordance with appropriate technical manuals (TMs) and references.	—	—
12. Conducted an in-process inspection.	—	—
13. Performed a final inspection to ensure the 350-GPM pump is fully mission-capable.	—	—
14. Critiqued personnel on their job performance.	—	—
15. Ensured maintenance forms are completed as required.	—	—
16. Ensured tools, equipment, and test, measurement, and diagnostic equipment (TMDE) are properly maintained.	—	—

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

**References**

**Required**

TM 10-4320-226-14

TM 10-4320-343-14

**Related**

DA PAM 750-8

**Troubleshoot the Control Module on the M56/M58 Smoke Generator**  
**091-52C-3069**

**Conditions:** In a contemporary operational environment, given an M56/M58 smoke generator, general mechanics tool kit, multimeter, and TM 3-1040-285-series.

**Standards:** Troubleshoot the control module of the M56/M58 smoke generator in accordance with applicable technical manuals (TMs).

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task is within shop capability/authorization.	—	—
3. Ensured applicable technical publications are available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) are available to repair/replace, and test the Infrared (IR) module.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the IR module.	—	—
8. Diagnosed fault(s) and determine maintenance action to be performed.	—	—
9. Identified repair parts and requisition, if required.	—	—
10. Assembled the IR module.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures are followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the IR module is repaired in accordance with appropriate TMs and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the IR module is fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms are completed as required.	—	—
19. Ensured tools and equipment are properly maintained.	—	—

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

**References**

**Required**

TM 3-1040-285-10  
TM 3-1040-285-20  
TM 3-1040-285-23P  
TM 3-1040-285-30

**Related**

DA PAM 750-8

**Troubleshoot the Power Module on the M56/M58 Smoke Generator**  
**091-52C-3070**

**Conditions:** In a contemporary operational environment and with minimum supervision, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, required tools, and test equipment.

**Standards:** Soldier must perform this task in accordance with listed references, ensuring that all applicable safety precautions are followed.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used appropriate references.	—	—
2. Selected and used tools and test equipment.	—	—
3. Inspected decontaminating apparatus system components.	—	—
4. Tested decontaminating apparatus system components.	—	—
5. Serviced decontaminating apparatus system components.	—	—
6. Adjusted decontaminating apparatus system components.	—	—
7. Replaced decontaminating apparatus system components.	—	—
8. Diagnosed fault(s) and determine maintenance action to be performed.	—	—
9. Repaired decontaminating apparatus system components.	—	—
10. Identified repair parts and requisition, if required.	—	—
11. Test-operated equipment.	—	—
12. Assembled the power module.	—	—
13. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—
14. Assigned personnel to perform necessary repairs.	—	—
15. Ensured all safety precautions and procedures are followed.	—	—
16. Provided assistance when necessary.	—	—
17. Ensured the power module is repaired in accordance with appropriate technical manuals (TMs) and references.	—	—
18. Conducted an in-process inspection.	—	—
19. Performed a final inspection to ensure the power module is fully mission-capable.	—	—
20. Critiqued personnel on their job performance.	—	—
21. Ensured maintenance forms are completed as required.	—	—
22. Ensured tools and equipment are properly maintained.	—	—

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

**References**

**Required**

TM 3-1040-285-10  
TM 3-1040-285-20  
TM 3-1040-285-23P  
TM 3-1040-285-30

**Related**

DA PAM 750-8

**Troubleshoot the Visual Module on the M56/M58 Smoke Generator**  
**091-52C-3071**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, an M56/M58 smoke generator, general mechanic's tool kit, multimeter, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting of the visual module on the M56/M58 smoke generator in accordance with applicable technical publications. When the task was completed, the M56/M58 smoke generator was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the visual module.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the visual module.	—	—
8. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
9. Identified repair parts and requisitioned, if required.	—	—
10. Assembled the visual module.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures were followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the visual module was repaired in accordance with appropriate TMs and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the visual module was fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools and equipment were properly maintained.	—	—

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



**References**

**Required**

TM 3-1040-285-10  
TM 3-1040-285-20  
TM 3-1040-285-23P  
TM 3-1040-285-30

**Related**

DA PAM 750-8

**Troubleshoot the Infrared (IR) Module on the M56/M58 Smoke Generator**  
**091-52C-3072**

**Conditions:** In a contemporary operational environment, given an M56/M58 smoke generator, general mechanics tool kit, multimeter, and TM 3-1040-285-series.

**Standards:** Troubleshoot the control module of the M56/M58 smoke generator in accordance with applicable technical manuals (TMs).

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task is within shop capability/authorization.	—	—
3. Ensured applicable technical publications are available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) are available to repair/replace, and test the IR module.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the IR module.	—	—
8. Diagnosed fault(s) and determine maintenance action to be performed.	—	—
9. Identified repair parts and requisition, if required.	—	—
10. Assembled the IR module.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures are followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the IR module is repaired in accordance with appropriate TMs and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the IR module is fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms are completed as required.	—	—
19. Ensured tools and equipment are properly maintained.	—	—

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

**References**

**Required**

TM 3-1040-285-10  
TM 3-1040-285-20  
TM 3-1040-285-23P  
TM 3-1040-285-30

**Related**

DA PAM 750-8

**Troubleshoot Control Panel on the M-17 Decontaminating Apparatus**  
**091-52C-3073**

**Conditions:** In a contemporary operational environment, given a fluid pumping mechanism, applicable references, tools and test equipment, and repair parts if needed.

**Standards:** The fluid pump must be maintained and its components replaced in accordance with the applicable technical publications' procedures and specifications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Selected and used appropriate references.	—	—
2. Selected and used appropriate tools and test equipment.	—	—
3. Inspected pump components.	—	—
4. Tested pump components.	—	—
5. Serviced pump components.	—	—
6. Adjusted pump components.	—	—
7. Replaced pump components.	—	—
8. Repaired pump components.	—	—
9. Test-operated pump; corrected deficiencies.	—	—
10. Completed The Army Maintenance Management System (TAMMS) forms as required.	—	—

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

**References**

**Required**

TM 3-4230-218-12&P  
 TM 3-4230-218-30&P

**Related**

**Perform Maintenance of the Fuel System on an M12A1 Decontaminating Apparatus  
091-52C-3074**

**Conditions:** In a contemporary operational environment, given an M12 Decontaminating Apparatus, general mechanics tool kit, multimeter, and applicable references.

**Standards:** Troubleshoot the fuel system on the M12 Decontaminating Apparatus in accordance with applicable technical manuals (TMs).

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task is within shop capability/authorization.	—	—
3. Ensured applicable technical publications are available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) are available to inspect, repair/replace, and test the fuel system.	—	—
5. Performed initial inspection.	—	—
6. Disassembled the fuel system.	—	—
7. Diagnosed fault(s) and determine maintenance action to be performed.	—	—
8. Identified repair parts and requisition, if required.	—	—
9. Assembled the fuel system.	—	—
10. Assigned personnel to perform necessary repairs.	—	—
11. Ensured all safety precautions and procedures are followed.	—	—
12. Provided assistance when necessary.	—	—
13. Ensured the fuel system is repaired in accordance with appropriate TMs and references.	—	—
14. Conducted an in-process inspection.	—	—
15. Performed a final inspection to ensure the fuel system is fully mission-capable.	—	—
16. Critiqued personnel on their job performance.	—	—
17. Ensured maintenance forms are completed as required.	—	—
18. Ensured tools, equipment, and TMDE are properly maintained.	—	—

**References****Required**

TM 3-4230-209-10

TM 3-4230-209-20&amp;P

**Related**

DA PAM 750-8

TM 3-4230-209-30&amp;P

**Perform Maintenance of the Boiler Assembly on an M12A1 Decontaminating Apparatus  
091-52C-3075**

**Conditions:** In a contemporary operational environment, given an M12 Decontaminating Apparatus, general mechanics tool kit, multimeter, and applicable references.

**Standards:** Troubleshoot the boiler assembly on the M12 Decontaminating Apparatus in accordance with applicable technical manuals (TMs).

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task is within shop capability/authorization.	—	—
3. Ensured applicable technical publications are available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) are available to inspect, repair/replace, and test the boiler assembly.	—	—
5. Performed initial inspection.	—	—
6. Disassembled the boiler assembly.	—	—
7. Diagnosed fault(s) and determine maintenance action to be performed.	—	—
8. Identified repair parts and requisition, if required.	—	—
9. Assembled the boiler assembly.	—	—
10. Assigned personnel to perform necessary repairs.	—	—
11. Ensured all safety precautions and procedures are followed.	—	—
12. Provided assistance when necessary.	—	—
13. Ensured the boiler assembly is repaired in accordance with appropriate TMs and references.	—	—
14. Conducted an in-process inspection.	—	—
15. Performed a final inspection to ensure the boiler assembly is fully mission-capable.	—	—
16. Critiqued personnel on their job performance.	—	—
17. Ensured maintenance forms are completed as required.	—	—
18. Ensured tools, equipment, and TMDE are properly maintained.	—	—

**References**

**Required**

TM 3-4230-209-10

TM 3-4230-209-20&P

**Related**

DA PAM 750-8

**Perform Maintenance of the Water Assembly on an M12A1 Decontaminating Apparatus  
091-52C-3076**

**Conditions:** In a contemporary operational environment, given an M12 Decontaminating Apparatus, general mechanics tool kit, multimeter, and applicable references.

**Standards:** Troubleshoot the water assembly on the M12 Decontaminating Apparatus in accordance with applicable technical manuals (TMs).

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task is within shop capability/authorization.	—	—
3. Ensured applicable technical publications are available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) are available to inspect, repair/replace, and test the water assembly.	—	—
5. Performed initial inspection.	—	—
6. Disassembled the water assembly.	—	—
7. Diagnosed fault(s) and determine maintenance action to be performed.	—	—
8. Identified repair parts and requisition, if required.	—	—
9. Assembled the water assembly.	—	—
10. Assigned personnel to perform necessary repairs.	—	—
11. Ensured all safety precautions and procedures are followed.	—	—
12. Provided assistance when necessary.	—	—
13. Ensured the water assembly is repaired in accordance with appropriate TMs and references.	—	—
14. Conducted an in-process inspection.	—	—
15. Performed a final inspection to ensure the water assembly is fully mission-capable.	—	—
16. Critiqued personnel on their job performance.	—	—
17. Ensured maintenance forms are completed as required.	—	—
18. Ensured tools, equipment, and TMDE are properly maintained.	—	—

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

**References**

**Required**

DA PAM 750-8

TM 3-4230-209-10

TM 3-4230-209-20&P

**Related**

**Perform Maintenance of the Reverse Osmosis Pump on a 600-GPH ROWPU  
091-52C-3077**

**Conditions:** In a contemporary operational environment, given an M116A2 trailer mounted steam cleaner, general mechanics tool kit, multimeter, and TM 9-4940-531-14.

**Standards:** Troubleshoot the fuel system on the M116A2 steam cleaner in accordance with applicable technical manuals (TMs).

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task is within shop capability/authorization.	—	—
3. Ensured applicable technical publications are available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) are available to inspect, repair/replace, and test the reverse osmosis pump.	—	—
5. Performed initial inspection.	—	—
6. Disassembled the reverse osmosis pump.	—	—
7. Diagnosed fault(s) and determine maintenance action to be performed.	—	—
8. Identified repair parts and requisition, if required.	—	—
9. Assembled the reverse osmosis pump.	—	—
10. Assigned personnel to perform necessary repairs.	—	—
11. Ensured all safety precautions and procedures are followed.	—	—
12. Provided assistance when necessary.	—	—
13. Ensured the reverse osmosis pump is repaired in accordance with appropriate TMs and references.	—	—
14. Conducted an in-process inspection.	—	—
15. Performed a final inspection to ensure the reverse osmosis pump is fully mission-capable.	—	—
16. Critiqued personnel on their job performance.	—	—
17. Ensured maintenance forms are completed as required.	—	—
18. Ensured tools, equipment, and TMDE are properly maintained.	—	—

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

**References**

**Required**

TM 9-4940-531-14  
TM 10-4610-215-10  
TM 10-4610-215-24  
TM 10-4610-239-10  
TM 10-4610-239-24

**Related**



**Perform Maintenance of the High Pressure Pump Assembly on a 3,000-GPH ROWPU  
091-52C-3078**

**Conditions:** In a contemporary operational environment, given a 3,000-GPH ROWPU, general mechanics tool kit, multimeter, and TM 10-4610-232-12, and TM 10-4610-232-34.

**Standards:** Troubleshoot the air system on the 3,000-GPH ROWPU in accordance with applicable technical manuals (TMs).

<b>Performance Measures</b>	<u><b>GO</b></u>	<u><b>NO-GO</b></u>
1. Reviewed work request.	—	—
2. Ensured task is within shop capability/authorization.	—	—
3. Ensured applicable technical publications are available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) are available to inspect, repair/replace, and test the high pressure pump assembly.	—	—
5. Performed initial inspection.	—	—
6. Disassembled the high pressure pump assembly.	—	—
7. Diagnosed fault(s) and determine maintenance to be performed.	—	—
8. Identified repair parts and requisition, if required.	—	—
9. Assembled the high pressure pump assembly.	—	—
10. Assigned personnel to perform necessary repairs.	—	—
11. Ensured all safety precautions and procedures are followed.	—	—
12. Provided assistance when necessary.	—	—
13. Ensured the high pressure water pump is repaired in accordance with appropriate TMs and references.	—	—
14. Conducted an in-process inspection.	—	—
15. Performed a final inspection to ensure the control module is fully mission-capable.	—	—
16. Critiqued personnel on their job performance.	—	—
17. Ensured maintenance forms are completed as required.	—	—
18. Ensured tools and equipment are properly maintained.	—	—

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

**References**

**Required**

- TM 10-4610-232-12
- TM 10-4610-232-34

**Related**

**Troubleshoot the Mechanical Systems on the M116A2 Steam Cleaner**  
**091-52C-3079**

**Conditions:** In a contemporary operational environment, given an M116A2 trailer mounted steam cleaner, general mechanics tool kit, multimeter, and TM 9-4940-531-14.

**Standards:** Troubleshoot the mechanical systems on the M116A2 steam cleaner in accordance with applicable technical manuals (TMs).

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task is within shop capability/authorization.	—	—
3. Ensured applicable technical publications are available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) are available to inspect, repair/replace, and test the electrical system.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Diagnosed fault(s) and determine maintenance action to be performed.	—	—
8. Identified repair parts and requisition, if required.	—	—
9. Assigned personnel to perform necessary repairs.	—	—
10. Ensured all safety precautions and procedures are followed.	—	—
11. Provided assistance when necessary.	—	—
12. Ensured the electrical system is repaired in accordance with appropriate TMs and references.	—	—
13. Conducted an in-process inspection.	—	—
14. Performed a final inspection to ensure the electrical system is fully mission-capable.	—	—
15. Critiqued personnel on their job performance.	—	—
16. Ensured maintenance forms are completed as required.	—	—
17. Ensured tools, equipment, and TMDE are properly maintained.	—	—

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

**References**

**Required**

TM 9-4940-531-14

**Related**

**Troubleshoot the Fuel System on the M116A2 Steam Cleaner  
091-52C-3080**

**Conditions:** In a contemporary operational environment, given an M116A2 steam cleaner, general mechanics tool kit, multimeter, and TM 9-4940-531-14.

**Standards:** Troubleshoot the water pump system on the M116A2 steam cleaner in accordance with applicable technical manuals (TMs).

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task is within shop capability/authorization.	—	—
3. Ensured applicable technical publications are available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) are available to inspect, repair/replace, and test the fuel system.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the fuel system.	—	—
8. Diagnosed fault(s) and determine maintenance action to be performed.	—	—
9. Identified repair parts and requisition, if required.	—	—
10. Assembled the fuel system.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures are followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the fuel system is repaired in accordance with appropriate TMs and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the fuel system is fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms are completed as required.	—	—
19. Ensured tools, equipment, and TMDE are properly maintained.	—	—

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

**References**

**Required**  
TM 9-4940-531-14

**Related**

**Troubleshoot the Air System on the M116A2 Steam Cleaner**  
**091-52C-3081**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, an M116A2 trailer mounted steam cleaner, general mechanic's tool kit, multimeter, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting of the air system on an M116A2 steam cleaner in accordance with applicable technical publications. When the task was completed, the M116A2 steam cleaner was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the air system.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the air system.	—	—
8. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
9. Identified repair parts and requisitioned, if required.	—	—
10. Assembled the air system.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures were followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the air system was repaired in accordance with appropriate TMs and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the air system was fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 9-4940-531-14

**Related**

**Troubleshoot the Mechanical Systems on the M116A2 Steam Cleaner**  
**091-52C-3082**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, an M116A2 trailer mounted steam cleaner, general mechanic's tool kit, multimeter, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting of the mechanical systems on an M116A2 steam cleaner in accordance with applicable technical publications. When the task was completed, the M116A2 steam cleaner was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the mechanical systems.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled mechanical systems.	—	—
8. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
9. Identified repair parts and requisitioned, if required.	—	—
10. Assembled the mechanical systems.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures were followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the mechanical systems were repaired in accordance with appropriate TMs and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the mechanical systems were fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 9-4940-531-14

**Related**

**Troubleshoot the Water Pump System on the M116A2 Steam Cleaner**  
**091-52C-3083**

**Conditions:** In a contemporary operational environment, given a maintenance request or equipment inspection worksheet describing equipment malfunctions, an M116A2 trailer mounted steam cleaner, general mechanic's tool kit, multimeter, additional tools, equipment specified in technical manuals (TMs), repair parts, and applicable maintenance forms and technical publications.

**Standards:** Performed troubleshooting of the water pump system on an M116A2 steam cleaner in accordance with applicable technical publications. When the task was completed, the M116A2 steam cleaner was fully mission-capable.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured task was within shop capability/authorization.	—	—
3. Ensured applicable technical publications were available.	—	—
4. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to inspect, repair/replace, and test the water pump system.	—	—
5. Performed initial inspection.	—	—
6. Performed troubleshooting procedures.	—	—
7. Disassembled the water pump system.	—	—
8. Diagnosed fault(s) and determined maintenance action to be performed.	—	—
9. Identified repair parts and requisitioned, if required.	—	—
10. Assembled the water pump system.	—	—
11. Assigned personnel to perform necessary repairs.	—	—
12. Ensured all safety precautions and procedures were followed.	—	—
13. Provided assistance when necessary.	—	—
14. Ensured the water pump system was repaired in accordance with appropriate TMs and references.	—	—
15. Conducted an in-process inspection.	—	—
16. Performed a final inspection to ensure the water pump assembly was fully mission-capable.	—	—
17. Critiqued personnel on their job performance.	—	—
18. Ensured maintenance forms were completed as required.	—	—
19. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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



**References**

**Required**

TM 9-4940-531-14

**Related**

**Perform Maintenance of the Drum Assembly on a Laundry Advanced System  
091-52C-3086**

**Conditions:** As a senior utilities equipment repairer in a contemporary operational environment, given Laundry Advanced System and supporting product. Drum assembly on the Laundry Advanced System does not work.

**Standards:** Repair the drum assembly in accordance with applicable references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured applicable technical publications were available.	—	—
3. Ensured proper tools, equipment and test, measurement, and diagnostic equipment (TMDE) were available to perform maintenance of the drum assembly on a Laundry Advanced System.	—	—
4. Performed maintenance in accordance with appropriate technical manuals (TMs) and references.	—	—
5. Ensured corrected were properly annotated on Unit Level Logistics System (ULLS)-generated for DA Form 5988-E (Equipment Inspection Maintenance Worksheet (EGA)).	—	—
6. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 10-3510-221-24

**Related**

TM 10-3510-221-10

**Perform Maintenance of the Heater Assembly on a Laundry Advanced System**  
**091-52C-3087**

**Conditions:** In a contemporary operational environment, given a Laundry Advanced System heater assembly that does not produce heat and applicable technical manuals (TMs).

**Standards:** Repair of the heating assembly and air system in accordance with applicable references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured applicable technical publications were available.	—	—
3. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were used to perform maintenance of the heater assembly on a Laundry Advanced System.	—	—
4. Performed maintenance in accordance with appropriate TMs and references.	—	—
5. Ensured corrections were annotated on Unit Level Logistics System (ULLS)-generated DA Form 5988-E (Equipment Inspection Maintenance Worksheet (EGA)).	—	—
6. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 10-3510-221-24

**Related**

TM 10-3510-221-10

**Troubleshoot the Control Panel on a Laundry Advanced System**  
**091-52C-3088**

**Conditions:** In a contemporary operational environment, given Laundry Advanced System and TM 10-3510-221-24. Control panel lights do not come on.

**Standards:** Repair of the control panel in accordance with applicable references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured applicable technical publications were available.	—	—
3. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were used to troubleshoot the control panel on a Laundry Advanced System.	—	—
4. Performed troubleshooting procedure according to applicable technical manual (TM) and references.	—	—
5. Ensured findings and corrective action were annotated on the Unit Level Logistics System (ULLS)-generated DA Form 5988-E (Equipment Inspection Maintenance Worksheet (EGA)).	—	—
6. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 10-3510-221-24

**Related**

TM 10-3510-221-10

**Perform Maintenance of the Air Compressor Assembly on a Laundry Advanced System**  
**091-52C-3090**

**Conditions:** In a contemporary operational environment, given air compressor assembly on a Laundry Advanced System.

**Standards:** Repair the compressor assembly in accordance with applicable technical publications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured applicable technical publications were available.	—	—
3. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were used to perform maintenance of the air compressor assembly on a Laundry Advanced System.	—	—
4. Performed maintenance in accordance with appropriate technical manuals (TMs) and references.	—	—
5. Ensured findings and corrections were properly annotated on Unit Level Logistics System (ULLS)-generated DA Form 5988-E (Equipment Inspection Maintenance Worksheet (EGA)).	—	—
6. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 10-3510-221-24

**Related**

TM 10-3510-221-10

**Perform Maintenance of the Recycle Unit on a Laundry Advanced System  
091-52C-3091**

**Conditions:** In a contemporary operational environment, given the recycle unit on a Laundry Advanced System.

**Standards:** Repair the recycle unit in accordance with applicable references.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured applicable technical publications were used.	—	—
3. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were used to perform maintenance of the recycle unit on a Laundry Advanced System.	—	—
4. Performed maintenance procedures in accordance with applicable technical manuals (TMs) and references.	—	—
5. Ensured findings and corrective measures were annotated on Unit Level Logistics System (ULLS)-generated DA Form 5988-E (Equipment Inspection Maintenance Worksheet (EGA)).	—	—
6. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

TM 10-3510-221-24

**Related**

TM 10-3510-221-10

## Subject Area 11: TECHNICAL INSPECTION TASKS

**Perform a Quality Control/Quality Assurance Inspection of Ground Support Equipment  
091-52C-3084**

**Conditions:** In a contemporary operational environment, given ground support equipment, necessary tools, equipment specified in technical manuals (TMs), and applicable maintenance forms and technical publications.

**Standards:** Performed a quality control/quality assurance inspection of ground support equipment in accordance with applicable technical publications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured applicable technical publications were available.	—	—
3. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to perform a quality control/quality assurance inspection of ground support equipment.	—	—
4. Performed inspection in accordance with appropriate TMs and references.	—	—
5. Ensured findings were properly annotated on inspection forms.	—	—
6. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References****Required**

DA FORM 2404  
DA FORM 2407  
DA PAM 750-8

**Related**

AR 750-1  
DA FORM 2407-1  
FM 4-30.3  
TB 43-0140

**Perform Classification Inspection of Ground Support Equipment**  
**091-52C-3085**

**Conditions:** In a contemporary operational environment, given ground support equipment, necessary tools, equipment specified in technical manuals (TMs), and applicable maintenance forms and technical publications.

**Standards:** Performed a classification inspection of ground support equipment in accordance with applicable technical publications.

<b>Performance Measures</b>	<b><u>GO</u></b>	<b><u>NO-GO</u></b>
1. Reviewed work request.	—	—
2. Ensured applicable technical publications were available.	—	—
3. Ensured proper tools, equipment, and test, measurement, and diagnostic equipment (TMDE) were available to perform a classification inspection of ground support equipment.	—	—
4. Performed inspection in accordance with appropriate TMs and references.	—	—
5. Ensured findings were properly annotated on inspection forms.	—	—
6. Ensured tools, equipment, and TMDE were properly maintained.	—	—

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

**References**

**Required**

DA FORM 2404  
DA FORM 2407  
DA PAM 750-8

**Related**

AR 750-1  
DA FORM 2407-1  
FM 4-30.3  
TB 43-0140



## Chapter 4

### Duty Position Tasks

#### 52C - Utilities Equipment Repairer, CMF63

- Major duties. The utilities equipment repairer supervises and performs unit, direct support and general support (DS/GS) maintenance to include utilities equipment and special purpose support systems. Duties for MOS 52C at each skill level are:
  - Military Occupational Specialty Code (MOSC) 52C1O. Maintains (inspects, repairs, tests, and adjusts) gasoline engine systems, bottle cleaning/charging stations, air conditioner electrical systems, air conditioner vapor systems, refrigeration unit electrical systems, portable heater fuel/electrical systems, fire extinguisher rechargers and fire extinguishers/valves.
  - MOSC 52C2O. Perform duties in preceding skill level, supervises lower grade Soldiers and provides technical guidance to the Soldiers in the accomplishment of their duties.
  - MOSC 52C3O. Perform duties in preceding skill levels, perform quartermaster and chemical equipment repairer (MOS 63J) duties, supervises lower grade Soldiers and provides technical guidance to the Soldiers in the accomplishment of their duties. Inspects and troubleshoots petroleum, oil, and lubrication equipment, smoke generators, laundry and bath units, chemical equipment, water purification equipment systems, portable forced air heaters, bottle cleaning/charging station, air conditioner units, refrigeration units, and fire extinguisher recharger. Also performs maintenance management activities, which includes production and quality control.
- Physical demands rating and qualifications for initial award of MOS. Utilities equipment repairers must possess the following qualifications:
  - A physical demands rating of moderately heavy.
  - A physical profile of 221121.
  - Normal color vision.
  - A minimum score of 100 in aptitude area GM.
  - Formal training (completion of MOS 52C course conducted under the auspices of the USA Ordnance Center and School) mandatory.
- Additional skill identifiers.
  - P5—Master Fitness Trainer.
  - 2S—Battle Staff Operations (Skill Level 3 and above).
  - 4A—Reclassification Training.

- Physical requirements and standards of grade.
  - Table 10-52C-1. Physical requirements.
  - Table 10-52C-2. Standards of Grade TOE/MTOE.
  - Table 10-52C-3. Standards of Grade TDA.

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## Appendix A

### Hands-on Evaluation

#### HANDS-ON EVALUATION (DA FORM 5164-R) INSTRUCTIONS

DA Form 5164-R (Hands-On Evaluation) allows the trainer to keep a record of the performance measures a Soldier passes or fails on each task. Figure A-1 shows a sample of a completed DA Form 5164-R.

##### Before evaluation:

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

##### During evaluation:

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

HANDS-ON EVALUATION For use of this form, see STP 11-25S14-SM-TG; the proponent agency is TRADOC		DATE 1 November 2006	
TASK TITLE Operate Bottle Cleaning and Charging Station (BC/CS)		TASK NUMBER 091-52C-2037	
ITEM a	PERFORMANCE STEP TITLE b	SCORE (Check One)	
		PASS c	FAIL d
1.	Used applicable publications.	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
2.	Determined serviceability based on an inspection.	<input type="checkbox"/> P	<input checked="" type="checkbox"/> F
3.	Prepared the BC/CS for operation.	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
4.	Practiced shop safety and maintenance discipline.	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
5.	Operated the BC/CS to charge a coolant bottle.	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
6.	Shut down the BC/CS.	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
7.	Completed TAMMS forms as required.	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
8.	Maintained tools and equipment.	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
		<input type="checkbox"/> P	<input type="checkbox"/> F
EVALUATOR'S NAME SSG Powell		UNIT W Co., 244th QM Bn	
SOLDIER'S NAME PV2 Howard		STATUS <input type="checkbox"/> GO <input checked="" type="checkbox"/> NO GO	

DA FORM 5164-R, SEP 85

EDITION OF DEC 82 IS OBSOLETE

APD V2.01

Figure A-1. Sample of a Completed DA Form 5164-R

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## Appendix B

### Field Expedient Squad Book

#### FIELD EXPEDIENT SQUAD BOOK (DA FORM 5165-R) INSTRUCTIONS

DA Form 5165-R (Field Expedient Squad Book) allows the trainer to keep a record of task proficiency for a group of Soldiers. Figure B-1 shows a sample of a completed DA Form 5164-R.

#### 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.



## GLOSSARY

### Section I

#### Acronyms & Abbreviations

<b>A/C</b>	air conditioning
<b>ACCP</b>	Army Correspondence Course Program
<b>AIPD</b>	Army Institute for Professional Development
<b>AISM</b>	Automated Information Systems Manual
<b>AIT</b>	Advanced Individual Training
<b>AMSS</b>	Army Materiel Status System
<b>AN</b>	Annually
<b>ANCOC</b>	Advanced Noncommissioned Officer Course
<b>AOAP</b>	Army Oil Analysis Program
<b>APD</b>	Army Publishing Directorate
<b>AR</b>	Army regulation
<b>ARTEP</b>	Army Training and Evaluation Program
<b>ATTN</b>	attention
<b>BA</b>	Biannually
<b>BC/CS</b>	bottle cleaning and charging station
<b>BNCOC</b>	Basic Noncommissioned Officer Course (BNCOC)
<b>BTC</b>	Basic Technical Course
<b>BTU</b>	British thermal unit
<b>BW</b>	Biweekly
<b>CBRN</b>	chemical, biological, radiological, nuclear
<b>CFM</b>	cubic feet per minute
<b>class</b>	classification
<b>CLT</b>	Common Logistic Task
<b>CTT</b>	common task test

<b>DA</b>	Department of the Army
<b>DC</b>	District of Columbia
<b>DPSU</b>	Dry Powder Service Unit
<b>DS</b>	Direct Support
<b>ECU</b>	Environmental Control Unit
<b>EIC</b>	equipment identification code
<b>EMS</b>	Electronic Maintenance System
<b>F</b>	Fahrenheit
<b>FDECU</b>	Field Deployable Environmental Control Unit
<b>FM</b>	field manual
<b>FMC</b>	fully mission-capable
<b>GPH</b>	gallons per hour
<b>GPM</b>	gallons per minute
<b>GS</b>	General Support
<b>HQ</b>	Headquarters
<b>hr</b>	hour(s)
<b>Hz</b>	hertz
<b>ICE</b>	Internal Combustion Engine
<b>IETM</b>	Interactive Electronic Technical Manual
<b>IR</b>	Infrared
<b>MACOM</b>	major Army command
<b>MCSR</b>	materiel condition status report
<b>METL</b>	Mission Essential Task List
<b>MO</b>	Monthly
<b>MOS</b>	Military Occupational Specialty
<b>MOSC</b>	Military Occupational Specialty Code
<b>MSDS</b>	Material Safety Data Sheet
<b>MTOE</b>	Modified Tables of Organization and Equipment



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<b>NA</b>	not applicable
<b>NCO</b>	Noncommissioned Officer
<b>NMC</b>	non-mission-capable
<b>No.</b>	number
<b>NSN</b>	national stock number
<b>OPORD</b>	operations order
<b>P/N</b>	part number
<b>PAM</b>	pamphlet
<b>PC</b>	personal computer
<b>PLL</b>	Prescribed Load List
<b>PMCS</b>	preventive maintenance checks and services
<b>pub</b>	publication
<b>QM</b>	Quartermaster
<b>QT</b>	Quarterly
<b>RDL</b>	Reimer Digital Library
<b>ROWPU</b>	reverse osmosis water purification unit
<b>RPSTL</b>	Repair Parts and Special Tools List
<b>SA</b>	Semiannually
<b>SAMS</b>	Standard Army Maintenance System
<b>SAMS-1</b>	Standard Army Maintenance System-Level 1
<b>SL</b>	Skill Level
<b>SM</b>	Soldier's Manual
<b>SM/TG</b>	Soldier's Manual/Trainer's Guide
<b>SMCT</b>	Soldier's manual of common tasks
<b>SOP</b>	standing operating procedure
<b>SPORT</b>	Soldier's portable on-system repair tool
<b>STP</b>	Soldier Training Publication

<b>SUST TNG FREQ</b>	sustainment training frequency
<b>SUST TNG SL</b>	Sustainment training skill level
<b>TAMMS</b>	The Army Maintenance Management System
<b>TB</b>	technical bulletin
<b>TDA</b>	Table of Daily Allowances
<b>TG</b>	Trainer's Guide
<b>TM</b>	technical manual
<b>TMDE</b>	test, measurement, and diagnostic equipment
<b>TOE</b>	Tables of Organization and Equipment
<b>TRADOC</b>	Training and Doctrine Command
<b>UIC</b>	unit identification code
<b>ULLS</b>	Unit Level Logistics System
<b>ULLS-G</b>	Unit Level Logistics System-Ground
<b>UNIT</b>	Trained in the Unit
<b>VA</b>	Virginia
<b>WK</b>	weekly
<b>WOBC</b>	Warrant Officer Basic Course

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**Section II****Terms****CTT (common task test)**

A hands-on test used to evaluate the Soldier's proficiency on common tasks.

**Field Manual (FM)**

A DA publication that contains doctrine that prescribes how the Army and its organizations function on the battlefield in terms of missions, organizations, personnel, and equipment. The level of detail should facilitate an understanding of "what" and "how" for commanders and staffs to execute their missions and tasks. The FM may also be used to publish selected alliance doctrinal publications that are not readily integrated into other doctrinal literature.

**GO/NO-GO**

A pass-fail grade given when a Soldier is evaluated on how well he or she can perform a task. The Soldier is either given a pass or fail, that is, GO or NO-GO.

**MOS (military occupational specialty)**

A term used to identify the skills of a group of related jobs and duty positions.

**TG (trainer's guide)**

A document that provides the information needed by your commander, training manager, and trainer to plan, conduct, and evaluate training in your MOS.

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## REFERENCES

### Required Publications

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

#### Army Regulations

AR 25-400-2	The Army Records Information Management System (ARIMS). 15 November 2004.
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 385-10	The Army Safety Program. 29 February 2000.
AR 385-40	Accident Reporting and Records. 1 November 1994.
AR 385-55	Prevention of Motor Vehicle Accidents. 12 March 1987.
AR 600-55	The Army Driver and Operator Standardization Program (Selection, Training, Testing, and Licensing). 18 June 2007.
AR 700-4	Logistics Assistance. 17 March 2006.
AR 700-138	Army Logistics Readiness and Sustainability. 26 February 2004.
AR 710-2	Supply Policy Below the National Level. 8 July 2005.
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. 10 April 2007.
AR 750-43	Army Test, Measurement, and Diagnostic Equipment. 3 November 2006.

#### Department of Army Forms

DA Forms are available on the APD Web site at [www.apd.army.mil](http://www.apd.army.mil).

DA FORM 17	<i>Requisition for Publications and Blank Forms.</i>
DA FORM 17-1	<i>Requisition for Publications and Blank Forms (Continuation Sheet).</i>
DA FORM 2028	<i>Recommended Changes to Publications and Blank Forms.</i>
DA FORM 2062	<i>Hand Receipt/Annex Number.</i>
DA FORM 2404	<i>Equipment Inspection and Maintenance Worksheet.</i>
DA FORM 2407	<i>Maintenance Request.</i>
DA FORM 2407-1	<i>Maintenance Request Continuation Sheet.</i>
DA FORM 3590	<i>Request for Disposition or Waiver.</i>
DA FORM 4569-1-R	<i>Security Assistance Publication Requisition Code Sheet (LRA).</i>
DA FORM 5164-R	<i>Hands-On Evaluation (LRA).</i>
DA FORM 5165-R	<i>Field Expedient Squad Book.</i>
DA FORM 5988-E	<i>Equipment Inspection Maintenance Worksheet (EGA).</i>

**Department of Army Pamphlets**

DA PAM 25-30	Consolidated Index of Army Publications and Blank Forms. 1 January 2007.
DA PAM 25-33	User's Guide for Army Publications and Forms. 15 September 1996.
DA PAM 25-40	Army Publishing: Action Officers Guide. 7 November 2006.
DA PAM 385-1	Small Unit Safety Officer/NCO Guide. 29 November 2001.
DA PAM 710-2-1	Using Unit Supply System (Manual Procedures). 31 December 1997.
DA PAM 710-2-2	Supply Support Activity Supply System: Manual Procedures. 30 September 1998.
DA PAM 750-1	Commanders' Maintenance Handbook. 2 February 2007.
DA PAM 750-3	Soldier's Guide for Field Maintenance Operations. 29 September 2006.
DA PAM 750-8	The Army Maintenance Management System (TAMMS) Users Manual. 22 August 2005.

**Field Manuals**

FM 1-02	Operational Terms and Graphics {MCRP 5-12A}. 21 September 2004.
FM 4-30.3	Maintenance Operations and Procedures. 28 July 2004.
FM 5-170	Engineer Reconnaissance. 5 May 1998.
FM 7-0	Training the Force. 22 October 2002.
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**

Robinair Operating Manual AISM 18-L21-AHN-BUR-UM	Model 17500B, Recovery/Recycle Station. Standard Army Maintenance System Level 1 (SAMS-1) End User Manual.
AISM 18-L26-AHO-BUR-EM	Standard Army Maintenance System Level 2 (SAMS-2) End User Manual.
MOD REFRIG/AIR COND MAN	Modern Refrigeration and Air Conditioning Manual.

**Soldier Training Publications**

STP 21-1-SMCT	Soldier's Manual of Common Tasks Skill Level 1. 2 October 2006.
STP 21-24-SMCT	Soldier's Manual of Common Tasks (SMCT) Warrior Leader Skill Levels 2-4. 2 October 2006.

**Technical Bulletins**

TB 43-180	Interactive Electronic Technical Manual (IETM) for Calibration and Repair Requirements for the Maintenance of Army Materiel. 7 August 2006.
TB 43-0211	Army Oil Analysis Program (AOAP) Guide for Leaders and Users. 1 December 2004.

## Technical Manuals

TM 3-1040-279-12&P	Operator's and Organizational Maintenance Manual Including Repair Parts and Special Tools List and Depot Maintenance Repair Parts for Generator Set, Smoke, Mechanical: Pulse Jet, M157 w/120 Gal Fog Oil Tank (NSN 1040-01-206-0147) w/80 Gal Fog Oil Tank (1040-01-293-5496) . 22 May 1987.
TM 3-1040-285-10	Generator, Smoke, Mechanical: Mechanized Smoke Obscurant System, M58. 29 June 1998.
TM 3-1040-285-20	Generator, Smoke, Mechanical: Mechanized Smoke Obscurant System, M58. 29 June 1998.
TM 3-1040-285-23P	Unit and Direct Support Maintenance Repair Parts and Special Tools List for Generator, Smoke, Mechanical: Mechanized Smoke Obscurant System, M58 (NSN 1040-01-413-8332). 31 August 1998.
TM 3-1040-285-30	Generator, Smoke, Mechanical: Mechanized Smoke Obscurant System, M58 (NSN 1040-01-413-8332). 20 June 1998.
TM 3-4230-209-10	Decontaminating Apparatus: Power Driven, Skid Mounted, Multipurpose Nonintegral 500-Gallon, M12A1 (NSN 4230-00-926-9488). 20 June 1986.
TM 3-4230-209-20&P	Unit Maintenance Manual Including Repair Parts and Special Tools List for Decontaminating Apparatus: Power-Driven, Skid-Mounted, 500 Gallon, M12A1 (NSN 4230-00-926-9488). 28 June 1986.
TM 3-4230-218-12&P	Operator's and Organizational Maintenance Manual (Including Repair Parts and Special Tools List) for Decontaminating Apparatus: Power-Driven, Portable, Type A/E32U-8 (NSN 4230-01-153-8660). 1 March 1987.
TM 3-4230-218-30&P	Direct Support Maintenance Manual (Including Repair Parts and Special Tools List) for Decontaminating Apparatus: Power-Driven, Portable, Type A/E32U-8 (NSN 4230-01-153-8660). 31 March 1987.
TM 3-4240-201-13	Operator's, Organizational, and Direct Support Maintenance Manual: Filter Unit, Gas-Particulate, Hospital, Six-Man, 12 CFM, ABC-M7A1 (FSN 4240-203-3999). 15 November 1972.
TM 5-4120-285-15	Operator's, Organizational, Direct Support, General Support and Depot Maintenance Manual for Air Conditioner, Compact Vertical, 208 Volts, 3 Phase; 18,000 BTUH Cooling; 12,000 BTUH Heating (Trane Model MAC 4V20-4950-03) 400 Hertz (NSN 4120-00-926-9567) and (Trane Model MAC 6V20-4950-05), 50/60 Hertz (4120-00-926-9568). 9 April 1969.
TM 5-4120-339-14	Operator's, Organizational, Direct Support and General Support Maintenance Manual for Air Conditioner, Vertical Compact; 9,000 BTU/HR, 208 V, 3 Phase, 50/60 HZ (TIERNEY Model TM9KV-208-3-60) (NSN 4120-01-091-9672) and (KECO MDL F9000T3-2) (4120-01-264-6295 {TO 35E9-253-1}). 23 October 1981.
TM 5-4120-359-14	Operator's, Organizational, Direct Support and General Support Maintenance Manual for Air Conditioner, Split Package; 18,000 BTU/HR Cooling; 30,000 BTU/HR Heating, 208 V, 3 Phase, 400 HZ KECO Model F18H4-2 (NSN 4120-01-069-1321), AIRTACS Model MSP18-4-08 (4120-01-266-7597), FERANGE Model FAC-MH-18S (4120-01-363-8137). 25 February 1982.

- TM 5-4120-377-14 Operator's, Organizational, Direct Support and General Support Maintenance Manual for Air Conditioner, Vertical Compact; 18,000 BTU/HR, 208 V, 3 Phase, 400 HZ (KECO Model F18T4-2S) (NSN 4120-01-127-0716), APPLIED Model 3788 (4120-01-220-7391). 19 September 1983.
- 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 5-4120-386-14 Operator's, Organizational, Direct Support, and General Support Maintenance Manual for Air Conditioner Horizontal, Compact, 9,000 BTU/HR, 208 Volt, 50/60 Hertz, Three-Phase, Model ECU-9HC326 (NSN 4120-01-193-4998). 27 March 1987.
- TM 5-4120-393-14 Operator, Unit, Intermediate Direct Support and Intermediate General Support Maintenance for Air Conditioner, Compact, Vertical, 208-Volt, 3 Phase, 50/60 Hertz, 60,000 BTU/HR Model F60T-2S (NSN 4120-01-238-4277) and Model F60T-2HS (4120-01-384-6922) {TO 35E9-289-1}. 2 November 1987.
- TM 5-4210-218-13&P Operator's, Unit, and Direct Support Maintenance Manual Including Repair Parts and Special Tools List for Recovery/Recharger Unit Fire Extinguisher, Monobromotrifluoromethane Skid Mounted, Pneumatic Motor Driven Model RHA-101-M1 (NSN 4210-01-430-5340). 31 October 1996.
- TM 5-4310-373-14 Operator's, Organizational, Direct Support and General Support Maintenance Manual for Compressor, Reciprocating, Air: Electric Motor Driven, 15 CFM, 175 PSI (C&H Model 20-912) (NSN 4310-01-120-7669). 11 May 1983.
- TM 5-4310-373-24P Organizational, Direct Support and General Support Maintenance Repair Parts and Special Tools List for Compressor, Air, Reciprocating; Electric Motor Driven, 15 CFM AT 175 PSI (NSN 4310-01-120-7669). 28 August 1989.
- TM 5-4520-253-13 Operator's, Unit, and Intermediate Maintenance Manual for Heater, Space, Multifuel with Blower, 60,000 BTU/HR, 120V, UH-68G (NSN 4520-01-203-4410). 4 November 1986.
- TM 5-4520-253-23P Unit and Intermediate Direct Support Maintenance Repair Parts and Special Tools List Heater, Space, Multifuel with Blower, 60,000 BTU/UR, 120V, Model UH-68G (NSN 4520-01-203-4410) and Model UH-68G1 (4520-01-297-6803). 10 July 1990.
- TM 5-4520-256-14 Operator's, Unit, Intermediate Direct and Intermediate General Support Maintenance for Heater, Duct Type, Portable, HDU-36/E, 120,000 BTU, Model H82 (NSN 4520-01-254-8548) and H83 (4520-01-332-2394) {TO 35E7-6-26-1}. 5 August 1988.
- TM 9-2320-280-10 Operator's Manual for Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4X4, M998 (NSN 2320-01-107-7155); M998A1 (2320-01-371-9577); Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4X4, w/Winch, M1038 (2320-01-107-7156); M1038A1 (2320-01-371-9578); Truck, Utility: Heavy Variant, 4X4, M1097 (2320-01-346-9317); M1097A1 (2320-01-371-9583); M1097A2 (2320-01-380-8604); Truck, Utility: Tow Carrier, Armored, 1-1/4 Ton, 4X4, M966 (2320-01-107-7153); M966A1 (2320-01-372-3932); Truck, Utility: Tow Carrier, Armored, 1-1/4 Ton, 4X4, w/Winch, M1036 (2320-01-107-7154); Truck, Utility: Tow Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, M1045 (2320-01-146-7191);



M1045A1 (2320-01-371-9580); M1045A2 (2320-01-380-8229); Truck, Utility: Tow Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, w/Winch, M1046 (2320-01-146-7188); M1046A1 (2320-01-371-9582); Truck, Utility: Armament Carrier, Armored, 1-1/4 Ton, 4X4, M1025 (2320-01-128-9551); M1025A1 (2320-01-371-9584); M1025A2 (2320-01-380-8233); Truck, Utility: Armament Carrier, Armored, 1-1/4 Ton, 4X4, w/Winch, M1026 (2320-01-128-9552); M1026A1 (2320-01-371-9579); Truck, Utility: Armament Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, M1043 (2320-01-146-7190); M1043A1 (2320-01-372-3933); M1043A2 (2320-01-380-8213); Truck, Utility: Armament Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, w/Winch, M1044 (2320-01-146-7189); M1044A1 (2320-01-371-9581); Truck, Utility: S250 Shelter Carrier, 4X4, M1037 (2320-01-146-7193); Truck, Utility: S250 Shelter Carrier, 4X4, w/Winch, M1042 (2320-01-146-7187); Truck, Ambulance, 2-Litter, Armored, 4X4, M996 (2310-01-111-2275); M996A1 (2310-01-372-3935); Truck, Ambulance, 4-Litter, Armored, 4X4, M997 (2310-01-111-2274); M997A1 (2310-01-372-3934); M997A2 (2310-01-380-8225); Truck, Ambulance, 2-Litter, Soft Top, 4X4, M1035 (2310-01-146-7194); M1035A1 (2310-01-371-9585); M1035A2 (2310-01-380-8290) {TO 36A12-1A-2091-1; TM 2320-10/6B}. 31 January 1996.

TM 9-2320-280-20-1

Unit Maintenance Volume 1 of 3 for Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4X4, M998 (NSN 2320-01-107-7155); M998A1 (2320-01-371-9577); Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4X4, w/Winch, M1038 (2320-01-107-7156); M1038A1 (2320-01-371-9578); Truck Utility: Heavy Variant, 4X4, M1097 (2320-01-346-9317); M1097A1 (2320-01-371-9583); M1097A2 (2320-01-380-8604); Truck, Utility: Tow Carrier, Armored, 1-1/4 Ton, 4X4, M966 (2320-01-107-7153); M966A1 (2320-01-372-3932); Truck, Utility: Tow Carrier, Armored, 1-1/4 Ton, 4X4, w/Winch, M1036 (2320-01-107-7154); Truck, Utility: Tow Carrier, w/Supplemental Armor, 1/1/4 Ton, 4X4, M1045 (2320-01-146-7191); M1045A1 (2320-01-371-9580); M1045A2 (2320-01-380-8229); Truck, Utility: Tow Carrier, w/Supplemental Armor, 1/1/4 Ton, 4X4, w/Winch, M1046 (2320-01-146-7188); M1046A1 (2320-01-371-9582); Truck, Utility: Armament Carrier, Armored, 1-1/4 Ton, 4X4, M1025 (2320-01-128-9551); M1025A1 (2320-01-371-9584); M1025A2 (2320-01-380-8233); Truck, Utility: Armament Carrier, Armored, 1-1/4 Ton, w/Winch, M1026 (2320-01-128-9552); M1026A1 (2320-01-371-9579); Truck, Utility: Armament Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, M1043 (2320-01-146-7190); M1043A1 (2320-01-372-3933); M1043A2; M1043A2 (2320-01-380-8213); Truck, Utility: Armament Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, w/Winch, M1044 (2320-01-146-7189); M1044A1 (2320-01-371-9581); Truck, Utility: S250 Shelter Carrier, 4X4, M1037 (2320-01-146-7193); Truck, Utility: S250 Shelter Carrier, 4X4, w/Winch, M1042 (2320-01-146-7187); Truck, Ambulance, 2-Litter, Armored, 4X4, M996 (2310-01-111-2275); M996A1 (2310-01-372-3935); Truck, Ambulance, 4-Litter, Armored, 4X4, M997 (2310-01-111-2274); M997A1 (2310-01-372-3934); M997A2 (2310-01-380-8225); Truck, Ambulance, 2-Litter, Soft Top, 4X4, M1035 (2310-01-146-7494); M1035A1 (2310-01-371-9585); M1035A2 (2310-01-380-8290); M1123 (2320-01-455-9593); M1121 (2330-01-456-1282) {TO-36A12-1A-2092-1-1; TM 2320-20/7B}. 31 January 1996.

TM 9-2320-280-20-2

Unit Maintenance Volume No. 2 of 3 Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4X4, M998 (NSN 2320-01-107-7155); M998A1 (2320-01-371-9577); Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4X4, w/Winch, M1038 (2320-01-107-7256); M1038A1 (2320-01-371-

9578); Truck, Utility: Heavy Variant, 4X4, M1097 (2320-01-346-9317); M1097A1 (2320-01-371-9583); M1097A2 (2320-01-380-8604); Truck, Utility: Tow Carrier, Armored, 1-1/4 Ton, 4X4, M966 (2320-01-107-7153); M966A1 (2320-01-372-3932); Truck, Utility: Tow Carrier, Armored, 1-1/4 Ton, 4X4, w/Winch, M1036 (2320-01-107-7154); Truck, Utility: Tow Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, M1045 (2320-01-146-7191); M1045A1 (2320-01-371-9580); M1045A2 (2320-01-380-8229); Truck, Utility: Tow Carrier, w/Supplemental Armor, 1-1/4, 4X4, w/Winch, M1046 (2320-01-146-7188); M1046A1 (2320-01-371-9582); Truck, Utility: Armament Carrier, Armored, 1-1/4 Ton, 4X4, M1025 (2320-01-128-9551); M1025A1 (2320-01-371-9584); M1025A2 (2320-01-380-8233); Truck, Utility: Armament Carrier, Armored, 1-1/4 Ton, 4X4, w/Winch, M1026 (2320-01-128-9552); M1026A1 (2320-01-371-9579); Truck, Utility: Armament Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, M1043 (2320-01-146-7190); M1043A1 (2320-01-372-3933); M1043A2 (2320-01-380-8213); Truck, Utility: Armament Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, w/Winch, M1044 (2320-01-146-7189); M1044A1 (2320-01-371-9581); Truck, Utility: S250 Shelter Carrier, 4X4, M1037 (2320-01-146-7193); Truck, Utility: S250 Shelter Carrier, 4X4, w/Winch, M1042 (2320-01-146-7187); Truck, Ambulance, 2-Litter, Armored, 4X4, M996 (2320-01-111-2275); M996A1 (2320-01-372-3935); Truck, Ambulance, 4-Litter, Armored, 4X4, M997 (2320-01-111-2274); M997A1 (2320-01-372-3934); M997A2 (2320-01-380-8225); Truck, Ambulance, 2-Litter, Soft Top, 4X4, M1035 (2320-01-146-7194); M1035A1 (2320-01-371-9585); (2320-01-380-8290) {TO 36A12-1A-2092-1-2; TM 2320-20/7B}. 31 January 1996.

TM 9-2320-280-20-3

Unit Maintenance Manual for Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4X4, M998 (NSN 2320-01-107-7155); M998A1 (2320-01-371-9577); Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4X4, w/Winch, M1038 (2320-01-107-7156); M1038A1 (2320-01-371-9578); Truck, Utility: Heavy Variant, 4X4, M1097 (2320-01-346-9317); M1097A1 (2320-01-371-9583); M1097A2 (2320-01-380-8604); Truck, Utility: Tow Carrier, Armored, 1-1/4 Ton, 4X4, M966 (2320-01-107-7153); M966A1 (2320-01-372-3932); Truck, Utility: Tow Carrier, Armored, 1-1/4 Ton, 4X4, w/Winch, M1036 (2320-01-107-7154); Truck, Utility: Tow Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, M1045 (2320-01-146-7191); M1045A (2320-01-371-9580); M1045A2 (2320-01-380-8229); Truck, Utility: Tow Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, w/Winch, M1046 (2310-01-146-7188); M1046A (2320-01-371-9582); Truck, Utility: Armament Carrier, Armored, 1-1/4 Ton, 4X4, M1025 (2320-01-128-9551); M1025A1 (2320-01-371-9584); M1025A2 (2320-01-380-8233); Truck, Utility: Armament Carrier, Armored, 1-1/4 Ton, 4X4, w/Winch, M1026 (2320-01-128-9552); M1026A1 (2320-01-371-9579); Truck, Utility: Armament Carrier, w/Supplemental Armor, 1/1/4 Ton, 4X4, M1043 (2320-01-146-7190); M1043A1 (2320-01-372-3933); M1043A2 (2320-01-380-8213); Truck, Utility: Armament Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, w/Winch, M1044 (2320-01-146-7189); M1044A1 (2320-01-371-9581); Truck, Utility: S250 Shelter Carrier, 4X4, M1037 (2320-01-146-7193); Truck, Utility: S250 Shelter Career, 4X4, w/Winch, M1042 (2320-01-146-7187); Truck, Ambulance, 2-Litter, Armored, 4X4, M996 (2310-01-111-2275); M966A1 (2310-01-372-3935); Truck, Ambulance, 4-Litter, Armored, 4X4, M997 (2310-01-111-2274); M997A1 (2310-01-372-3934); M997A2 (2310-01-380-8225); Truck, Ambulance, 2-Litter, Soft Top, 4X4, M1035 (2310-01-

TM 9-2320-280-24P-1

146-7194); M1035A1 (2310-01-371-9585); M1035A2 (2310-01-380-8290) {TO 36A12-1A-2092-1-3; TM 2320-20/7C}. 31 January 1996.

Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools List, Volume 1 of 2, for Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4X4, M998 (NSN 2320-01-107-7155); M998A1 (2320-01-371-9577); Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4X4, w/Winch, M1038 (2320-01-107-7156); M1038A1 (2320-01-371-9578); Truck, Utility: Heavy Variant, 4X4, M1097 (2320-01-346-9317); M1097A1 (2320-01-371-9583); M1097A2 (2320-01-380-8604); Truck, Utility: Tow Carrier, Armored, 1-1/4 Ton, 4X4, M966 (2320-01-107-7153); M966A1 (2320-01-372-3932); M1121 (2320-01-456-1282); Truck, Utility: Tow Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, M1045 (2320-01-146-7191); M1045A (2320-01-371-9580); M1045A2 (2320-01380-8229); Truck, Utility: Tow Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, w/Winch, M1046 (2320-01-146-7188); M1046A1 (2320-01-371-9582); Truck, Utility: Armament Carrier, Armored, 1-1/4 Ton, 4X4, M1025 (2320-01-128-9551); M1025A1 (2320-01-371-9584); M1025A2 (2320-01-380-8233); Truck, Utility: Armament Carrier, Armored, 1-14 Ton, 4X4, w/Winch, M1026 (2320-01-128-9552); M1026A1 (2320-01-371-9579); Truck, Utility, Armament Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, M1043 (2320-01-146-7190); M1043A1 (2320-01-372-3933); M1043A2 (2320-01-380-8213); Truck, Utility: Armament Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, w/Winch, M1044 (2320-01-146-7189); M1044A1 (2320-01-371-9581); Truck Utility: S250 Shelter Carrier, 4X4, M1037 (2320-01-146-7193); Truck, Utility: S250 Shelter Carrier, 4X4, w/Winch, M1042 (2310-01-146-7187); Truck, Ambulance, 2-Litter, Armored, 4X4, M996 (2310-01-111-2275); M996A1 (2320-01-372-3935); Truck, Ambulance, 4-Litter, Armored, 4X4, M997 (2320-01-111-2274); M997A1 (2310-01-372-3934); M997A2 (2320-01-380-8225); Truck, Ambulance, 2-Litter, Soft Top, 4X4, M1035 (2320-01-146-7194); M1035A1 (2320-01-371-9585); M1035A2 (2320-01-380-8290) {TO 36A12-1A-3044-1; TM 2320-24P/8A}. 30 March 2001.

TM 9-2320-280-24P-2

Unit, Direct Support and General Support Maintenance Repair Parts and Special Tools List, Volume 2 of 2 for Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4X4, M998 (NSN 2320-01-107-7155); M998A1 (2320-01-371-9577); Truck, Utility: Cargo/Troop Carrier, 1-1/4 Ton, 4X4, w/Winch, M1038 (2320-01-107-7156); M1038A1 (2320-01-371-9578); Truck, Utility: Heavy Variant, 4X4, M1097 (2320-01-346-9317); M1097A1 (2320-01-371-9583); M1097A2 (2320-01-380-8604); Truck, Utility: Tow Carrier, Armored, 1-1/4 Ton, 4X4, M966 (2320-01-107-7153); M966A1 (2320-01-372-3932); Truck, Utility: Tow Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, M1045 (2320-01-146-7191); M1045A1 (2320-01-371-9580); M1045A2 (2320-01-380-8229); Truck, Utility: Tow Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, w/Winch, M1046 (2320-01-146-7188); M1046A1 (2320-01-371-9582); Truck, Utility: Armament Carrier, Armored, 1-1/4 Ton, 4X4, M1025 (2320-01-128-9551); M1025A1 (2320-01-371-9584); M1025A2 (2320-01-380-8233); Truck, Utility: Armament Carrier, Armored, 1/1/4 Ton, 4X4, w/Winch, M1026 (2320-01-128-9552); M1026A1 (2320-01-371-9579); Truck, Utility: Armament Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, M1043 (2320-01-146-7190); M1043A1 (2320-01-372-3933); M1043A2 (2320-01-380-8213); Truck, Utility: Armament Carrier, w/Supplemental Armor, 1-1/4 Ton, 4X4, w/Winch, M1044 (2320-01-146-7189); M1044A1 (2320-01-371-9581); Truck, Utility: S250 Shelter Carrier, 4X4, M1037 (2320-01-146-7193); Truck, Utility: S250 Shelter

- Carrier, 4X4, w/Winch, M1042 (2320-01-146-7187); Truck, Ambulance, 2-Litter, Armored, 4X4, M996 (2310-01-111-2275); M996A1 (2310-01-372-3935); Truck, Ambulance, 4-Litter, Armored 4X4, M997 (2310-01-111-2274); M997A1 (2310-01-372-3934); M997A2 (2310-01-380-8225); Truck, Ambulance, 2-Litter, Soft Top, 4X4, M1035 (2310-01-146-7194); M1035A1 (2310-01-371-9585); M1035A2 (2310-01-380-8290) {TO 36A12-1A-3044-2; TM 2320-24P/8A}. 30 March 2001.
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