

**101-92F-2503**  
**Supervise Petroleum Operations using Modular Fuel System (MFS)**  
**Status: Approved**

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**Distribution Restriction:** Approved for public release; distribution is unlimited.

**Destruction Notice:** None

**Foreign Disclosure: FD1** - This training product has been reviewed by the training developers in coordination with the Fort Lee foreign disclosure officer. This training product can be used to instruct international military students from all approved countries without restrictions.

**Conditions:** In an operational environment (OE) given the requirement to supervise fueling operations. Personnel and materials required to perform task: four military occupational specialty (MOS)-qualified (92F) Soldiers; Modular Fuel System (MFS), Load Handling System/Palletized Loading System (LHS/PLS) trucks to haul/download equipment and personnel, risk management procedures, applicable Safety Data Sheets (SDS), personal protective equipment (PPE), communications equipment, fuel source, fire extinguishers, spill kit/containment and clean up equipment, Facility Response Plan (FRP), Spill Prevention Control and Countermeasures (SPCC) plan, Oil Discharge Contingency Plan (ODCP) (if required), written or oral operations order (OPORD), unit standing operating procedure (SOP), DA Form 3643 (Daily Issues of Petroleum Products), DA Form 2404 (Equipment Inspection and Maintenance Worksheet) or DA Form 5988-E (Equipment Inspection Maintenance Worksheet (EGA)), DD Form 1898 (Fuel Sale Slip), and full access to all reference materials. This task should not be trained in MOPP 4.

**Standards:** Supervise the assembly, operator's preventive maintenance checks and services (PMCS), operation, and disassembly of the LHS/PLS Modular Fuel System(MFS)without damage to equipment, injury to personnel, or pollution to the environment. Maintain communications equipment and required records.

**Special Conditions:** None

**Safety Risk:** Low

**MOPP 4:** Never

**Task Statements**

**Cue:** None

**DANGER**

None

**WARNING**

None

**CAUTION**

None

**Remarks:** None

**Notes:** In this task, as in many tasks involving extensive handling petroleum product, make sure the proper equipment is on hand to contain and clean up any spills. Supervise the unpacking, inspecting, and positioning of the equipment before the task begins. Brief the Soldiers on the task at hand and ensure that they understand the task at hand.

## Performance Steps

1. Perform risk assessment measures according to health/safety task 101-92F-1160.
2. Ensure environmental stewardship measures are followed according to shared task 101-000-0003.
3. Ensure personnel read and understand unit or installation SOP/OPORD requirements for requesting, storing, handling, and disposing of hazardous materials.
4. Enforce wearing of appropriate PPE as required.
5. Supervise before-, during-, and after-operations PMCS on system's components according to unit SOP and appropriate technical manuals (TMs). Ensure personnel record faults found while performing PMCS on DA Form 2404 or DA Form 5988-E.
6. Supervise inventory of MFS. Ensure components are complete and serviceable prior to mission.
7. Supervise positioning of MFS.
  - a. Ensure ground guides are in place while placing fuel tank and pump.
  - b. Ensure tanks and pump unit are positioned on reasonably level ground.
  - c. Ensure pumping unit and fuel tanks are grounded.
  - d. Ensure fire extinguishers are in place and serviceable.
8. Supervise assembling of MFS according to OPORD and unit SOP.

Note: Ensure pump pressure gauges are observed during operations, Ensure personnel know the location of the THREE EMERGENCY SHUTDOWN SWITCHES IN CASE OF AN EMERGENCY.

  - a. Observe safety precautions.
    - (1) Post NO SMOKING signs within 50 feet of operation.
    - (2) Position fire extinguishers within 5 to 10 feet of all hazardous equipment.
    - (3) Ground and bond all equipment.
    - (4) Protect yourself and others from fumes and vapors.
    - (5) Use oil spill containers when connecting or disconnecting hoses.
    - (6) Check to ensure that 5-gallon water containers are at each dispensing point.
  - b. Observe product for color, clarity, and contamination.
    - (1) Visual examination.
    - (2) API gravity test.
9. Supervise operation procedures according to OPORD and unit SOP.
  - a. Ensure equipment is functioning properly.
  - b. Ensure personnel are performing tasks properly.
  - c. Ensure personnel account for issue and received of product by completing DA Form 3643 or DD Form 1898, in accordance with OPORD and unit SOP.
  - d. Monitor site for safety violations and environmental compliance.

# WARNING

Stop operations immediately for safety or environmental infractions. (Refer to step 10d).

10. Supervise disassembly of MFS.

11. Maintain records for accountability of product according to OPORD and unit SOP. Provide to supervisor upon completion of MFS operations.

(Asterisks indicates a leader performance step.)

**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 scores NO-GO, show the Soldier what was done wrong and how to do it correctly.

**Evaluation Preparation:** See task Conditions and Standards.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Performed risk assessment measures according to health/safety task 101-92F-1160.			
2. Ensured environmental stewardship measures were followed according to shared task 101-000-0003.			
3. Ensured personnel read and understood unit or installation SOP/OPORD requirements for requesting, storing, handling, and disposing of hazardous materials.			
4. Enforced wearing of appropriate PPE as required.			
5. Supervised before-, during-, and after-operations PMCS on system's components according to unit SOP and appropriate TMs. Ensured personnel recorded faults found while performing PMCS on DA Form 2404 or DA Form 5988-E.			
6. Supervised inventory of MFS. Ensured components were complete and serviceable prior to mission.			
7. Supervised positioning of MFS.			
8. Supervised assembling of MFS according to OPORD and unit SOP.			
9. Supervised operation procedures according to OPORD and unit SOP.			
10. Supervised disassembly of MFS.			
11. Maintained records for accountability of product according to OPORD and unit SOP. Provided to supervisor upon completion of MFS operations.			

## Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	AR 200-1	ENVIRONMENTAL PROTECTION AND ENHANCEMENT	Yes	No
	ATP 3-34.5	Environmental Considerations	Yes	No
	ATP 4-43	Petroleum Supply Operations	Yes	No
	ATP 5-19 (Change 001 09/08/2014 78 Pages)	RISK MANAGEMENT	Yes	No
	DA FORM 2404	EQUIPMENT INSPECTION AND MAINTENANCE WORKSHEET	Yes	No
	DA FORM 3643	DAILY ISSUES OF PETROLEUM PRODUCTS	Yes	No
	DA FORM 5988-E	Equipment Inspection Maintenance Worksheet	Yes	No
	DA PAM 750-8	The Army Maintenance Management System (TAMMS) Users Manual	Yes	No
	DD FORM 1898	FUEL SALE SLIP	Yes	No
	TM 10-4930-365-13&P	OPERATOR AND FIELD MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL) FOR MODULAR FUEL SYSTEM TANK RACK MODULE (NSN 4930-01-517-6939) (EIC:TBD)	Yes	Yes
	TM 10-4930-368-10	Operator's Manual for Pump Rack Module	Yes	Yes

**TADSS :** None

**Equipment Items (LIN):** None

**Material Items (NSN) :**

Step ID	NSN	LIN	Title	Qty
No materiel items specified				

**Environment:** Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to the current Environmental Considerations manual and the current GTA Environmental-related Risk Assessment card. Ensure spills are cleaned up, reported as required by unit policies, procedures, and applicable environmental laws.

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with current Risk Management Doctrine. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW current CBRN doctrine. Apply risk management programs, Verify that applicable Safety Data Sheets (SDS) are maintained, Check the appropriate personal protective equipment (PPE) is being worn and maintained

**Prerequisite Individual Tasks :** None

**Supporting Individual Tasks :**

Task Number	Title	Proponent	Status
101-92F-2125	Supervise Accountability of Petroleum Products	101 - Quartermaster (Individual)	Approved
101-92F-2400	Supervise Quality Surveillance on Petroleum Products	101 - Quartermaster (Individual)	Approved
101-92F-1160	React to Petroleum Products Health / Safety Hazards	101 - Quartermaster (Individual)	Approved

**Supported Individual Tasks :** None

**Supported Collective Tasks :** None

**Knowledges :**

Knowledge ID	Knowledge Name
101-K-P20030	Knowledge of how to supervise an inventory
K632	Know how to perform operator Preventive Maintenance Checks and Services on Modular Fuel System (MFS) IAW appropriate TM
101-K-P20031	Know how to complete and verify DA Form 2404, 5988-E, 5987-E, 3643, DD Form 1970 and 1898
K631	Knowledge of Modular Fuel System (MFS) characteristics and features
101-K-P20040	Knowledge of how to assemble, operate, and disassemble the Modular Fuel System (MFS)
K261	Knowledge of positioning requirements for the Modular Fuel System (MFS)
K22393	Know how to supervise quality surveillance procedures when examining petroleum products for color, clarity, and contamination
K22394	Know how to supervise personnel in performing quality surveillance of petroleum products
K22392	Know how to supervise API gravity testing using hydrometer or density meter
101-K-P10017	Know how to read and interpret appropriate Field Manuals and Technical Manuals
K22395	Know how to train personnel on quality surveillance procedures for petroleum products
K22396	Know how to review sample tag (DD Form 2927) to ensure it is accurate and complete
101-K-12	Knowledge of Material Safety Data Sheets (MSDS)
K22374	Know how to supervise pilferage control measures according to regulations and unit SOP
K22373	Know how to prepare petroleum accountability form DA Form 3644 (Monthly Abstract of Issues of petroleum Products and Operating Supplies)
K7913	Recognize Inhalation Hazards
K22372	Know how to review inventory records (DD Form 2921 or gauge worksheets) to ensure they are accurate and complete
101-K-M002	Know how to identify risks and hazards.
K641	Know how to prepare petroleum accountability forms (DA Form 3643, 2765-1, and DD Form 1898)
K22375	Know how to review receipts and issue documents (DA Form 3643, 2765-1, and DD Form 1898)
101-K-0017	Knowledge of SOP/Operations Order Requirements for Handling/Disposal of Hazardous Materials
K599	Know how to perform personal protective measures when handling petroleum products
K22417	Know how to read and interpret appropriate Army Technical Publications, Field Manuals, and Technical Manuals

K596	Knowledge of petroleum products fire hazards and sources of ignition
K598	Know how to identify petroleum products health hazards
K304	Know site selection considerations for petroleum operations
K597	Know how to perform first aid for petroleum products related injuries
K306	Know petroleum accountability procedures
101-K-P20012	Know how to properly wear PPE and its intended usage
101-K-P20011	Knowledge of how to properly supervise soldiers
101-K-P20015	Knowledge of the Environmental Stewardship Protection Program measures
K22400	Knowledge of how to supervise an inventory of the Modular Fuel System (MFS)
101-K-P20016	Knowledge of Preventive Maintenance Checks and Services (PMCS) procedures
K22402	Know how to supervise Preventive Maintenance Checks and Services (PMCS) on Modular Fuel System
K22401	Knowledge of how to supervise the assembly, operations, and disassembly of the Modular Fuel System (MFS)
031-K-627-021	Knowledge of Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120 requirements
101-K-P20010	Knowledge of unit's SOP and local policy requirements and their location
101-K-P20009	Knowledge on how to enforce Risk Management procedures and control measures

**Skills :**

<b>Skill ID</b>	<b>Skill Name</b>
101-S-P10018	Ability to read and interpret appropriate Field Manuals and Technical Manuals
101-S-P20030	Ability to supervise an inventory
S2554	Ability to supervise quality surveillance procedures when examining for color, clarity, and contamination
101-S-P20016	Ability to supervise Preventive Maintenance Checks and Services (PMCS)
101-S-P20015	Ability to enforce Environmental Stewardship Protection Program measures
S1578	Ability to perform first aid for petroleum products related injuries
101-S-P20031	Ability to complete and verify the accuracy of DA Form 2404, 5988-E, 5987-E, 3643, DD Form 1970
101-S-P20040	Ability to supervise the assembly, operation, and disassembly of the Modular Fuel System (MFS)
S2558	Ability to supervise an inventory of the Modular Fuel System (MFS)
S1000	Identify site selection considerations for petroleum operations
S2544	Ability to supervise inventory of petroleum products
S1608	Ability to perform Preventive Maintenance Checks and Services (PMCS) on Modular Fuel System (MFS) IAW appropriate TM
S1611	Ability to prepare petroleum accountability forms (DA Form 3643, 2765-1, and DD Form 1898)
S1577	Ability to identify petroleum products fire hazards and sources of ignition
S2546	Ability to enforce pilferage control measures according to regulations and unit SOP
S2553	Ability to verify the accuracy of the required sampling and gauging forms (DD Form 2927 and DD Form 2921)
S1008	Interpret and prepare petroleum accountability forms
101-S-P20011	Ability to supervise one or more soldiers
101-S-P20012	Ability to enforce the proper wear of Personal Protective Equipment (PPE)
101-S-10008	Ability to extract information from Material Safety Data Sheets (MSDS)
S2555	Ability to supervise quality surveillance of petroleum products
S-101-E-0100	Ability to assemble, operate, and disassemble the Modular Fuel System (MFS)
101-S-P20008	Ability to enforce Risk Management procedures and control measures
S-101-E-0099	Ability to position the Modular Fuel System (MFS)
101-S-P20009	Ability to maintain and interpret Material Safety Data Sheets (MSDS)
101-S-P20010	Ability to read, understand, and enforce the unit's SOP and local policies
S1579	Ability to identify petroleum products health hazards
S2559	Ability to supervise Preventive Maintenance Checks and Services (PMCS) on the Modular Fuel System (MFS)
S2545	Ability to prepare petroleum accountability form DA Form 3644 (Monthly Abstract of Issues of petroleum Products and Operating Supplies)

**ICTL Data :**

<b>ICTL Title</b>	<b>Personnel Type</b>	<b>MOS Data</b>
92F Petroleum Supply Specialist SL 20	Enlisted	MOS: 92F, Skill Level: SL2, Duty Pos: QFP