

101-92F-2433
Supervise Petroleum Operations using Refuel on the Move (ROM) Equipment
Status: Approved

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: nine military occupational specialty (MOS)-qualified (92F) Soldiers; enough hoses, valves, and fittings to refuel up to eight combat vehicles at the same time, 5,000-gallon tank semi-trailer, a fuel source, 550-foot-long by 150-foot-wide area, a spill contingency kit, risk management procedures, applicable Safety Data Sheets (SDS), personal protective equipment (PPE), Facility Response Plan (FRP); Spill Prevention Control and Countermeasures (SPCC) plan; unit hazardous waste/hazardous material (HW/HM) management policy; unit standing operating procedure (SOP); oral or written operations order (OPORD); 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)), and full access to all reference materials. The area is secure, no enemy contact is expected, and vehicles to be refueled are on hand. NOTE: This task is NOT performed when electrical storms are within a 3-mile radius of the area of operations. This task should not be trained in MOPP 4.

Standards: Supervise ROM operations ensuring safety, fuel accountability, and customer support are provided without damage to equipment or injury to personnel or damage to the environment.

Special Conditions: None

Safety Risk: Low

MOPP 4: Never

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| Task Statements |
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Cue: None

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| DANGER Failure to perform this task correctly may result in damage to equipment or injury or death to personnel. |
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| WARNING Due to safety considerations, normal vehicle refueling is done with the engine off. AR 385-55 states that commanders will apply all normal safety standards to their operations unless it is necessary to change due to the mission. In training situations, changes may be authorized only by the commander. Commanders will evaluate the significance of the assumed risk versus the training benefit. In combat operations, commanders will make decisions based on Mission, Enemy, Terrain, Troops and Time Available, Civil Considerations (METT-TC) and risk analysis. |
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| CAUTION None |
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Remarks: None

Notes: None

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 preventive maintenance checks and services (PMCS) on system's components according to unit SOP and appropriate technical manuals (TMs). Ensure personnel recorded faults found while performing PMCS on DA Form 2404 or DA Form 5988-E.
6. Clear ground of brush saplings and debris (rocks, sticks, and trash).
7. Supervise inventory of ROM equipment.
 - a. Ensure all equipment required to accomplish mission is on hand such as:
 - (1) Enough hoses, valves, and fittings to refuel up to eight vehicles at the same time..
 - (2) Fire extinguishers for vehicle and each distributing point.
 - (3) Spill contingency kit, as a minimum, absorbents, shovels, and containers.
 - (4) Appropriate PPE for each distributing point.
 - (5) NO SMOKING signs.
 - (6) Water containers (5 gallon) for each distributing point.
 - (7) Appropriate drip pans for each distributing point.
 - (8) Communications for controlling signals such as: flags, chemical light or flashlights, and radios.
 - b. Check serviceability of components according to appropriate TM.
 - (1) Check hoses for dry rot, bulges, and gaskets.
 - (2) Check nozzle screens for sediment.
 - (3) Check tanker pump to ensure it is operational.
 - (4) Check fire extinguishers to ensure the appropriate for mission.
8. Assign specific duties to personnel.
 - a. Pump operators.
 - b. Nozzle operators.
 - c. Ground guides.
9. Supervise assembly of ROM equipment according to OPORD and unit SOP.
 - a. Ensure fire extinguishers are placed at each refueling point and source of fuel (but not so close that they cannot be reached in event of a fire).
 - b. Ensure drip pans are placed at each refueling point and fuel source.

- c. Ensure NO SMOKING signs are posted.
 - d. Ensure there is a 5 gallon can of water at each refueling point for any emergency.
10. Supervise ROM operation according to unit SOP, ATP 4-43, and appropriate TMs.
- a. Implement PMCS on ROM and support equipment (such as pumps, hoses, and nozzles).
Note: Ensure all deficiencies are annotated on DA Form 2404 or DA Form 5988-E.
 - b. Ensure personnel are familiar and equipped with operational control signals (flags, lights, and radio) to be used.
 - c. Ensure vehicles safely enter and move through ROM site and receive prescribed amount/time of fuel.
 - d. Enforce grounding and bonding procedures for fuel semi-trailers, pumps, filter separators, and each refueling point.
 - e. Ensure appropriate PPE is on hand and worn by personnel filling vehicles (for example, standard combat uniform, hearing protection, goggles, and gloves).
 - f. Ensure personnel are ready to handle nozzles for refueling vehicles when convoy personnel (assistant driver or commander) are not available.
 - g. Observe site for safety and environmental infractions. Shut down operations immediately if infractions are detected and correct them.
 - h. Ensure personnel account for issue of product in accordance with OPORD and unit SOP.
11. Supervise disassembly of ROM equipment according to unit SOP, ATP 4-43, and appropriate TMs.
12. Maintain records for accountability of petroleum products according to OPORD and unit SOP. Provide to supervisor upon completion of ROM 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 Soldiers 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 |
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| 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 preventive maintenance checks and services (PMCS) on system's components according to unit SOP and appropriate technical manuals (TMs). Ensured personnel recorded faults found while performing PMCS on DA Form 2404 or DA Form 5988-E. | | | |
| 6. Cleared ground of brush saplings and debris (rocks, sticks, and trash). | | | |
| 7. Supervised inventory of ROM equipment. | | | |
| 8. Assigned specific duties to personnel. | | | |
| 9. Supervised assembly of ROM equipment according to OPORD and unit SOP. | | | |
| 10. Supervised ROM operation according to unit SOP, ATP 4-43, and appropriate TMs. | | | |
| 11. Supervised disassembly of ROM equipment according to unit SOP, ATP 4-43, and appropriate TMs. | | | |
| 12. Maintained records for accountability of petroleum products according to OPORD and unit SOP. Provided to supervisor upon completion of ROM operations. | | | |

Supporting Reference(s):

| Step Number | Reference ID | Reference Name | Required | Primary |
|-------------|---|---|----------|---------|
| | AR 200-1 | ENVIRONMENTAL PROTECTION AND ENHANCEMENT | No | No |
| | ATP 3-34.5 | Environmental Considerations | No | No |
| | ATP 4-43 | Petroleum Supply Operations | No | No |
| | ATP 5-19 (Change 001 09/08/2014 78 Pages) | RISK MANAGEMENT | No | 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 710-2-1 (Please don't use, link to the one in ATSC domain, the official one) | Using Unit Supply System (Manual Procedures)(Standalone Pub) | No | No |
| | FM 4-40 (Change 001, May 08, 2014) | QUARTERMASTER OPERATIONS http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/fm4_40.pdf | No | No |
| | STP 21-1-SMCT | SOLDIER'S MANUAL OF COMMON TASKS WARRIOR SKILLS LEVEL 1 | No | No |
| | TM 10-4930-247-13&P | OPERATORS, UNIT AND DIRECT SUPPORT MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR HEMTT TANKER AIRCRAFT REFUELING SYSTEM MODEL HTARS100 (NSN 4930-01-365-2771) AND MODEL HTARS101 (49 | No | No |
| | TM 9-2320-429-10 | TRUCK, TANK, 8X8 M978 W/WINCH (NSN 2320-01-097-0249)(EIC B2C) M978 W/O WINCH (2320-01-100-7672)(EIC B2H) | No | No |
| | TM 9-2330-330-14&P (RESCINDED) | OPERATOR'S, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST) FOR SEMITRAILER, FUEL TANKER: 5000-GALLON, FUEL-DISPENSING, AUTOMOTIV, November 30, 2005, Superseded | No | No |

TADSS : None

Equipment Items (LIN): None

Materiel Items (NSN) :

| Step ID | NSN | LIN | Title | Qty |
|---------|------------------|--------|--|-----|
| | 4930-01-365-7771 | R66273 | Refueling System: Aviation HEMMT Tanker HTARS100 | 1 |
| | 2320-00-050-8902 | X40831 | Truck Cargo: 5 Ton 6x6 LWB W/E: M813 | 1 |
| | 2330-01-050-5634 | S73372 | Semitrailer, Tank, Fuel: M969 | 1 |
| | 2320-01-100-7672 | T87243 | Truck Tank: Fuel Servicing 2500 Gallon 8x8 Heavy Expanded Mobility: M978 | 1 |

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) | ArmyU Review |
| 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 |
| 101-92F-2309 | Supervise Petroleum Operations using Tank Vehicles | 101 - Quartermaster (Individual) | Reviewed |

Supported Individual Tasks :

| Task Number | Title | Proponent | Status |
|--------------|--|----------------------------------|----------|
| 101-92F-2309 | Supervise Petroleum Operations using Tank Vehicles | 101 - Quartermaster (Individual) | Reviewed |

Supported Collective Tasks : None

Knowledges :

| Knowledge ID | Knowledge Name |
|--------------|--|
| K707 | Know how to gauge petroleum tank vehicles |
| K22386 | Knowledge of Preventive Maintenance Checks and Services (PMCS) procedures on POL tank vehicles |
| 101-K-P20030 | Knowledge of how to supervise an inventory |
| 101-K-P20031 | Know how to complete and verify DA Form 2404, 5988-E, 5987-E, 3643, DD Form 1970 and 1898 |
| K22389 | Know the characteristics of the M969A3 semi-trailer fuel tanker, 5,000 gallon |
| K22390 | Know the characteristics of the TPU |
| K22387 | Describe safety precautions taken when conducting refueling operations using petroleum tank vehicles |
| K22388 | Describe loading and unloading operations using petroleum tank vehicles |
| 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 |
| K22391 | Know the characteristics of the HEMTT-Tanker |
| 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 |
| 101-K-P20028 | Knowledge of Refuel on the Move (ROM) equipment and how to supervise an inventory |
| K22398 | Know how to supervise preventive maintenance checks and services on refuel on the move (ROM kit/equipment) components IAW appropriate TM |
| 101-K-P20029 | Knowledge of ROM capabilities, its operations, and requirements IAW unit's SOP |
| 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) |
| K22372 | Know how to review inventory records (DD Form 2921 or gauge worksheets) to ensure they are accurate and complete |
| K7913 | Recognize Inhalation Hazards |
| 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 |
| 101-K-EA027 | Know requirements for maintaining inventory records |
| 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 |
| 101-K-M039 | Know how to assign duties based on levels of proficiency. |
| 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 |

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| 101-K-P20016 | Knowledge of Preventive Maintenance Checks and Services (PMCS) procedures |
| 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 :

| Skill ID | Skill Name |
|-----------------|---|
| 101-S-P20030 | Ability to supervise an inventory |
| 101-S-P20029 | Ability to supervise the assembly, operation, and disassembly of the ROM equipment IAW the estab |
| 101-S-P20028 | Ability to supervise an inventory of the Refuel on the Move (ROM) equipment |
| 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 |
| 101-S-1169 | Ability to comply with documentation requirements listed in unit's SOP |
| S1578 | Ability to perform first aid for petroleum products related injuries |
| 101-S-M009 | Ability to assign duties based on levels of proficiency. |
| 101-S-P20031 | Ability to complete and verify the accuracy of DA Form 2404, 5988-E, 5987-E, 3643, DD Form 1970 |
| 551-S-0012 | Ability to gauge fuel level on a tank semitrailer |
| S1000 | Identify site selection considerations for petroleum operations |
| S2544 | Ability to supervise inventory of petroleum products |
| 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) |
| 101-S-P20012 | Ability to enforce the proper wear of Personal Protective Equipment (PPE) |
| S2555 | Ability to supervise quality surveillance of petroleum products |
| 101-S-P20008 | Ability to enforce Risk Management procedures and control measures |
| S2552 | Ability to supervise refueling operations using petroleum tank vehicles (M967, M979, M978) and Tank and Pump Unit IAW TMs and unit SOP |
| 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 |
| S0199 | Recognizing risks and hazards |
| S1579 | Ability to identify petroleum products health hazards |
| S0982 | Ability to identify resource requirements for conducting ROM refueling operations using petroleum tank vehicles |
| S2545 | Ability to prepare petroleum accountability form DA Form 3644 (Monthly Abstract of Issues of petroleum Products and Operating Supplies) |

ICTL Data :

| ICTL Title | Personnel Type | MOS Data |
|---------------------------------------|-----------------------|---|
| 92F Petroleum Supply Specialist SL 20 | Enlisted | MOS: 92F, Skill Level: SL2, Duty Pos: QFP |