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**1345-ADMN-2001:** Supervise inventory of tools sets, chests, and kits

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Provided the references.

**STANDARD:** To reconcile inventory records for accountability and serviceability per the references.

**PERFORMANCE STEPS:**

1. Review references.
2. Supervise inventory.
3. Verify missing and unserviceable items.
4. Take corrective actions, as required.

**REFERENCES:**

1. Appropriate Technical Manuals
2. MCO P4790.2\_MIMMS Field Procedures Manual
3. TM 4700-15/1\_Ground Equipment Record Procedures
4. UNIT SOP Unit's Standing Operating Procedures

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**1345-ADMN-2002:** Maintain engineer equipment operator records and forms.

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided engineer equipment, applicable forms, and references.

**STANDARD:** To comply with record-keeping procedures.

**PERFORMANCE STEPS:**

1. Review the references.
2. Determine records/forms required.
3. Prepare the proper records/forms.
4. Maintain records/forms on file and submit, as required.

**REFERENCES:**

1. Appropriate Technical Manuals
2. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
3. MCO P4790.2 MIMMS Field Procedures Manual
4. TM 4700-15/1 Ground Equipment Record Procedures
5. UM 4790-5 MIMMS-AIS Field Maintenance Procedures

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**1345-ADMN-2003:** Administer engineer equipment licensing program

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** With personnel, documentation, licensing records, and references.

**STANDARD:** Ensuring equipment operators are licensed.

**PERFORMANCE STEPS:**

1. Review the references.
2. Determine operator licensing requirements.
3. Review equipment training and testing programs.
4. Review and approve/reject licensing applications and renewals.
5. Administer licensing tests.
6. Review completed OF 346.
7. Document licensing action.

**REFERENCES:**

1. MCO P4790.1\_ Marine Corps Integrated Maintenance Management System (MIMMS) Introduction Manual
2. TM 11275-15/3\_ Principal Technical Characteristics of U.S. Marine Corps Engineer Equipment
3. TM 11275-15/4 Tactical Engineer Equipment Licensing Manual
4. TM 4700-15/1\_ Ground Equipment Record Procedures
5. UNIT SOP Unit's Standing Operating Procedures

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**1345-MANT-2001:** Perform engineer equipment Limited Technical Inspection (LTI)

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Provided an item of equipment, a 1341 engineer equipment mechanic, a LTI Worksheet (NAVMC 10560), appropriate tools, and references.

**STANDARD:** To meet LTI requirements.

**PERFORMANCE STEPS:**

1. Review the references.
2. Perform operator preventive maintenance checks and services.
3. Assist the mechanic in inspecting the equipment per the technical manual.
4. Record inspection results.

**REFERENCES:**

1. Appropriate Technical Manuals
2. TM 4700-15/1\_ Ground Equipment Record Procedures

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**1345-MANT-2002:** Maintain Corrosion Prevention and Control (CPAC) Program

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** LCPL, CPL, SGT

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Given an item of equipment, required safety equipment, materials, appropriate tools, and references.

**STANDARD:** To maintain equipment in optimum operating condition.

**PERFORMANCE STEPS:**

1. Review the references.
2. Identify discrepancies.
3. Draw materials and tools.
4. Don Personal Protective Equipment (PPE).
5. Perform necessary corrective action.
6. Spot paint, as required.
7. Lubricate, as required.
8. Dispose of waste.

**REFERENCES:**

1. MCO 4790.18 Corrosion Prevention and Control (CPAC) Program
2. TM 11275-15/3 Principal Technical Characteristics of U.S. Marine Corps Engineer Equipment
3. TM 3080-50 Corrosion Control Procedures for Depot Maintenance Activities

**1345-MANT-2003:** install/remove Medium Crawler Tractor (MCT) attachments

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** While assisting a 1341 Engineer Equipment Mechanic, with an MCT, MCT attachments, tools, and the reference.

**STANDARD:** To ensure safe installation/removal with no injury to personnel or damage to the equipment.

**PERFORMANCE STEPS:**

1. Review the references.
2. Prepare tractor for attachments.
3. Install or remove the attachments.
4. Perform operator checks and services as necessary.

**REFERENCES:**

1. Appropriate Technical Manuals
2. TM 11503A-OR 850 JR Crawler Dozer

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**1345-MANT-2004:** Replace cutting edges/teeth on applicable engineer equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** PVT, PFC, LCPL, CPL, SGT

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Given a requirement, appropriate tools, and references.

**STANDARD:** To restore equipment to full operational condition.

**PERFORMANCE STEPS:**

1. Review the references.
2. Consult with mechanic as to the level of assistance required in replacing the cutting edges/teeth.
3. Remove old cutting edges/teeth.
4. Replace with new cutting edges/teeth.

**PREREQUISITE EVENTS:**

1341-MANT-2013                      1345-MANT-2004

**REFERENCES:**

1. Appropriate Technical Manuals

**UNITS/PERSONNEL:** A 1341 Engineer Equipment Mechanic provides assistance to accomplish this event.

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**1345-HEOP-2001:** Operate the Rough Terrain Container Handler

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided an engineer equipment requirement, engineer equipment records and forms, and references.

**STANDARD:** To safely meet operational requirements with no injury to personnel or damage to the equipment.

**PERFORMANCE STEPS:**

1. Review the references.
2. Perform before operational checks and services.
3. Perform starting procedures.
4. Operate container handler to perform material handling operations.
5. Install/remove container handling attachment, as required.
6. Prepare container handler for transportation.
7. Perform during operations checks and services.
8. Perform shut down procedures.
9. Perform after operations checks and services.
10. Complete operational records.

**REFERENCES:**

1. Appropriate Technical Manuals
2. TM 11078A-OR Rough Terrain Container Handler (RTCH) RT 240 V2; 53,000LB Capacity; 4X4
3. TM 11275-15/4 Tactical Engineer Equipment Licensing Manual
4. TM 4700-15/1\_ Ground Equipment Record Procedures

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**1345-HEOP-2002:** Operate the LRT-110 Crane

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided an engineer equipment requirement, engineer equipment records and forms, and references.

**STANDARD:** To safely meet operational requirements with no injury to personnel or damage to equipment.

**PERFORMANCE STEPS:**

1. Review the references.
2. Perform before operations checks and services.
3. Perform starting procedures.
4. Operate the crane.
5. Install/remove man basket, as required.
6. Perform during operations checks and services.
7. Perform shut down procedures.
8. Perform after operations checks and services.
9. Complete operational records.

**REFERENCES:**

1. Appropriate Technical Manuals
2. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
3. TM 09166B-14&P Operation/maintenance manual with repair part list
4. TM 11275-15/4 Tactical Engineer Equipment Licensing Manual
5. TM 4700-15/1\_ Ground Equipment Record Procedures
6. TM 5-3810-305-10 Operators manual for crane, wheel mounted, hydraulic, light, 7 1/2 ton rough terrain crane

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**1345-HEOP-2003:** Operate the Marine All-Terrain Crane (MAC 50)

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided an engineer equipment requirement, attachments, tools, engineer equipment records and forms, and references.

**STANDARD:** To safely meet operational requirements with no injury to personnel or damage to the equipment.

**PERFORMANCE STEPS:**

1. Review the references.
2. Perform before operational checks and services.
3. Perform starting procedures.
4. Perform crane operations.
5. Install/remove attachments, as required.
6. Perform during operational checks and services.
7. Perform shut down procedures.
8. Perform after operational checks and services.
9. Complete operational records.

**REFERENCES:**

1. Appropriate Technical Manuals
2. MCO P11262.2 Inspection, Testing, and Certification of Tactical Ground Load Lifting Equipment
3. TM 11262A-OR/3 Operations and Operator/Crew Maintenance Manual for all-terrain crane
4. TM 11275-15/4 Tactical Engineer Equipment Licensing Manual
5. TM 4700-15/1\_ Ground Equipment Record Procedures

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**1345-HEOP-2004:** Operate the 621G Scraper

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided an engineer equipment requirement, engineer equipment records and forms, and references.

**STANDARD:** To safely meet operational requirements with no injury to personnel or damage to the equipment.

**PERFORMANCE STEPS:**

1. Review the references.
2. Perform before operations checks and services.
3. Perform starting procedures.
4. Perform self loading operations.
5. Perform external loading procedures.
6. Perform push loading operations.
7. Perform during operations checks and services.
8. Perform shut down procedures.
9. Perform after operations checks and services.
10. Complete operational records.

**REFERENCES:**

1. Appropriate Technical Manuals
2. TM 11275-15/4 Tactical Engineer Equipment Licensing Manual
3. TM 11503A-OR Operators Manual; 850JR MCT Crawler Dozer
4. TM 4700-15/1\_ Ground Equipment Record Procedures

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**1345-HEOP-2005:** Operate the Hydraulic Excavator (HYEX)

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided an engineer equipment requirement, engineer equipment records and forms, and references.

**STANDARD:** To safely meet operational requirements with no injury to personnel or damage to the equipment.

**PERFORMANCE STEPS:**

1. Review the references.
2. Perform before operations checks and services.
3. Perform starting procedures.
4. Perform general engineering operations.
5. Perform installation/removal of attachments.
6. Perform during operations checks and services.
7. Perform shut down procedures.
8. Perform after operations checks and services.
9. Complete operational records.

**REFERENCES:**

1. Appropriate Technical Manuals
2. TM 11275-15/4 Tactical Engineer Equipment Licensing Manual
3. TM 4700-15/1\_ Ground Equipment Record Procedures

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**1345-HEOP-2006:** Operate equipment with a Grade Control System

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided an engineer equipment requirement and references.

**STANDARD:** To safely meet operational requirements with no injury to personnel or damage to the equipment.

**PERFORMANCE STEPS:**

1. Review the references.
2. Install the laser system.
3. Install the GPS system.
4. Perform the measure up of the GPS system.
5. Perform valve calibration.
6. Perform sensor calibration.
7. Perform site set up of laser system.
8. Perform site set up of GPS system.
9. Perform leveling operations.

**REFERENCES:**

1. Appropriate Technical Manuals
2. TM 11503A-OR 850 JR Crawler Dozer
3. TM 11621A-OR MOTORIZED ROAD GRADER, MODEL 120M
4. TM 4700-15/1\_ Ground Equipment Record Procedures

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**1345-HEOP-2007:** Operate the M9 Armored Combat Earthmover (ACE)

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Provided an engineer equipment requirement, engineer equipment records and forms, and references.

**STANDARD:** To safely meet operational requirements with no injury to personnel or damage to the equipment.

**PERFORMANCE STEPS:**

1. Review the references.
2. Perform before operations checks and services.
3. Perform starting procedures.
4. Conduct mobility and counter mobility earthmoving operations.
5. Perform during operations checks and services.
6. Perform shut down procedures.
7. Perform after operations checks and services.
8. Complete operational records.

**REFERENCES:**

1. Appropriate Technical Manuals
2. TM 11275-15/4 Tactical Engineer Equipment Licensing Manual
3. TM 4700-15/1 Ground Equipment Record Procedures
4. TM 5-2350-262-10 Operators Manual Armored Combat Earthmover (ACE), M9,

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**1345-HEOP-2008:** Operate the CS-563E vibratory compactor

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** PVT, PFC, LCPL, CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Provided an engineer equipment requirement, engineer equipment records and forms and references.

**STANDARD:** To safely meet operational requirements with no injury to personnel or damage to the equipment.

**PERFORMANCE STEPS:**

1. Initiate trip ticket.
2. Perform before operations checks and services.
3. Perform starting procedures.
4. Perform during operations checks and services.
5. Perform vibratory compaction operations.
6. Perform roller operations.
7. Change drum pads, as required.
8. Perform shut down procedures.
9. Perform after operations checks and services.
10. Complete operational records.

**REFERENCES:**

1. Appropriate Technical Manuals
2. FM 21-60 Visual Signals
3. TM 11275-15/4 Tactical Engineer Equipment Licensing Manual
4. TM 4700-15/1\_ Ground Equipment Record Procedures

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**1345-HEOP-2009:** Operate the Multi-Terrain Loader (MTL)

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345, 1371

**BILLETS:**

**GRADES:** PVT, PFC, LCPL, CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Provided an engineer equipment requirement, engineer equipment records, forms, and references.

**STANDARD:** To safely meet operational requirements with no injury to personnel or damage to the equipment.

**PERFORMANCE STEPS:**

1. Initiate trip ticket.
2. Perform before operations checks and services.
3. Perform starting procedures.
4. Perform during operations checks and services.
5. Perform general engineering operations.
6. Change attachments, as required.
7. Operate attachments, as required.
8. Perform shut down procedures.
9. Perform after operations checks and services.
10. Complete operational records.

**REFERENCES:**

1. FM 21-60 Visual Signals
2. TM 11275-15/4 Tactical Engineer Equipment Licensing Manual
3. TM 11276A-0I/1 Multi-Terrain Loader (MTL)
4. TM 4700-15/1\_ Ground Equipment Record Procedures

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**1345-HEOP-2010:** Operate the Runway Sweeper

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** PVT, PFC, LCPL, CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Provided an engineer equipment requirement, engineer equipment records, forms and references.

**STANDARD:** To safely meet operational requirements with no injury to personnel or damage to the equipment.

**PERFORMANCE STEPS:**

1. Initiate trip ticket.
2. Perform before operations checks and services.
3. Perform starting procedures.
4. Perform during operations checks and services.
5. Operate the sweeper to remove foreign object debris (FOD).
6. Perform shut down procedures.
7. Perform after operations checks and services.
8. Complete operational records.

**REFERENCES:**

1. FM 21-60 Visual Signals
2. TM 09199B-OR Sweeper, Rotary, Vehicle Mounting
3. TM 11275-15/4 Tactical Engineer Equipment Licensing Manual
4. TM 4700-15/1\_ Ground Equipment Record Procedures

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**1345-HEOP-2011:** Operate the 613C Water Distributor

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** PVT, PFC, LCPL, CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Provided an engineer equipment requirement, engineer equipment records, forms, and references.

**STANDARD:** To safely meet operational requirements with no injury to personnel or damage to the equipment.

**PERFORMANCE STEPS:**

1. Initiate trip ticket.
2. Perform before operation checks and services.
3. Perform starting procedures.
4. Perform during operation checks and services.
5. Operate the 613C Water Distributor.
6. Perform shut down procedures.
7. Perform after operation checks and services.
8. Complete operational records.

**REFERENCES:**

1. FM 21-60 Visual Signals
2. TM 11275-15/4 Tactical Engineer Equipment Licensing Manual
3. TM 4700-15/1 Ground Equipment Record Procedures
4. TM 5-3800-205-10-2 Distributor, Water, Tank Type, 2525 Gallon Capacity, Sectionalized Model 613CWD

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**1345-HEOP-2012:** Camouflage positions, vehicles or equipment

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** PVT, PFC, LCPL, CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** MOJT

**CONDITION:** Provided a mission, an area, and lightweight camouflage screening system components.

**STANDARD:** To prevent detection from 200 meters in any direction.

**PERFORMANCE STEPS:**

1. Review size of positions, vehicles, or equipment to be camouflaged.
2. Determine required modules of lightweight screen needed.
3. Assemble modules into one net.
4. Place assembled modules over position, vehicles, or equipment to be camouflaged.
5. Ensure appropriate blend is showing.
6. Tie into existing, natural or other manmade camouflage.
7. Inspect area frequently and upgrade camouflage, as needed.

**REFERENCES:**

1. FM 20-3 Camouflage

**1345-HORZ-2001:** Prepare estimations for project production and logistical requirements

**EVALUATION-CODED:** NO

**SUSTAINMENT INTERVAL:** 12 months

**DESCRIPTION:**

**MOS PERFORMING:** 1345

**BILLETS:**

**GRADES:** CPL, SGT, SSGT

**INITIAL TRAINING SETTING:** FORMAL

**CONDITION:** Provided a horizontal construction mission, resources, and references.

**STANDARD:** To support mission requirements.

**PERFORMANCE STEPS:**

1. Identify weight of a specified volume of soil.
2. Calculate the maximum load volume and weight.
3. Calculate required production rates.
4. Calculate the time requirement for mission completion.
5. Identify logistical requirements to support a mission.

**REFERENCES:**

1. Appropriate Technical Manuals
2. FM 5-434 Earthmoving Operations
3. TM 10629-10D Truck, Dump, 7-ton, MK29/ MK30
4. TM 11412A-OR Operator's Manual 624KR Loader
5. TM 11503A-OR 850 JR Crawler Dozer