

FIELD LEVEL MAINTENANCE



HAND BOOK MAY 2014

Disclaimer: Read the general guidelines and then quickly glance through the various sections. Each section is designed for independent use. You may choose the sequence that suits your situation best; however, to receive the full benefit of the handbook, use the checks and suggestions within each chapter. Establish a schedule and over a reasonable period of time, check each area thoroughly. Readiness is continuous. To achieve an acceptable level requires command follow-up. Get everyone in your unit supporting the maintenance program. Think Maintenance!

Foreword

The purpose of this handbook is to provide a clear description of two-level maintenance and to clarify aspects of it that, up until now, have been surrounded by confusion and misunderstanding. It is not a directive on how commanders should conduct maintenance in their units but positive guidance to allow commanders to assess and make full use of assigned maintenance assets.

The United States Army is organized, trained, and equipped to be the most decisive land force in the world. Army forces are employed within a strategic context and conduct decisive and sustainable land operations through the simultaneous combination of offensive, defensive, and stability operations. Two-level maintenance doctrine supports this type of warfare.

In supporting the Army, the primary goal of two-level maintenance is to generate/regenerate combat power and to preserve the capital investment of weapons systems and equipment to enable mission readiness and accomplishment. The commander that combines skillful use of assigned equipment with effective maintenance management processes has a decided advantage.

For over a decade Ordnance Soldiers received training to perform Field Level maintenance tasks. Their skills, linked to the fielding of modular tool sets and maintenance support vehicles, facilitate responsive maintenance support and sustained readiness. It is essential that leaders provide time for field maintenance training. Field maintenance training should reflect on the unit's training schedule. Training is imperative for Soldiers to successfully support the unit mission and ensure that FMC equipment is available for operations.

With all this in mind, always make sure that adequate safety precautions and personal protective equipment are fully utilized in every operation—our Soldiers are our greatest asset.

- GO ORDNANCE!

7) Material Management

c. Has GCSS-Army operator attended scheduled GCSS-Army sustainment training, in accordance with local SOP or installation policy?

d. Has the maintenance supervisor completed all seven GCSS-Army web based maintenance modules via the Army Learning Management System (ALMS) <https://www.lms.army.mil/Saba/Web/Main?>

e. Is the dispatch form digitally signed by the dispatcher and approving authority via the business workplace (SBWP)?

f. Does the maintenance manager review the AMSS report through the GCSS-Army Business Intelligence prior to the LOGSA pull on the 16th of each month?

*NOTE: Future GCSS-Army capabilities will incorporate daily AMSS reporting automatically through Business Intelligence.

g. Has the maintenance supervisor and all unit users subscribed to the GCSS-Army web notifications?

1) Go to <http://www.gcass.army.mil>.

2) Click on the Subscribe tab.

3) Fill in all required personal data fields.

4) Click submit.

5) Users will now receive all GCSS-Army notifications related to outages and technical bulletins.

References:

GCSS-Army End User Manual +, https://www.gcass-army.army.mil/GCSS-ARMY/EUMLaunch/garmy_jump1.html

GCSS-Army Home Page, <http://www.gcass.army.mil>

Field Level Maintenance Handbook

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Global Combat Support System-Army (GCSS-Army)

1. Task: Evaluate the unit's GCSS-Army program.
2. Condition: Given the Command Maintenance Program, annotated references, equipment, records, and a unit maintenance area, evaluate the unit's compliance to published GCSS-Army guidance.
3. GCSS-Army is the future of Army Maintenance, enhancing our legacy STAMIS systems into a central database for the entry level user of all Army commands. We have become accustomed to LOGSA and an Army database that has been echelons above us for years. GCSS-Army has brought this logistics tool to the Commanders desk top. While TAMMS is still the system required by regulation we will continue to maintain equipment records along with all regulated documents IAW the regulations and local SOP's within the limitations of the SAP Solution known as GCSS-Army.
4. Standards:
 - a. Does the unit maintenance SOP address GCSS-Army operations and procedures?
 - b. Has GCSS-Army operator successfully completed all seven maintenance modules via the Army Learning Management System (ALMS) <https://www.lms.army.mil/Saba/Web/Main?>
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INTRODUCTION

Army maintenance operations use the two-level maintenance system. The two-level maintenance system changed Army maintenance doctrine, organizations, training, materiel, infrastructure, leadership and education, personnel and facilities.

Initiated in 2004 simultaneously with modularity, the transformation was an extensive process requiring sweeping changes both to existing maintenance paradigms and to maintenance organizations across the Army. Commanders, staffs, and maintenance personnel had to change their way of thinking about maintenance, move beyond the legacy four-level system and embrace the new maintenance doctrine which placed both the burden and power of two-level maintenance in their hands. Although the transformation is complete, there are still lingering misunderstandings about the two levels of maintenance and how they complement each other.

The two-level maintenance system, comprised of field and sustainment levels, was developed and implemented after extensive analysis and research. The goal of this maintenance system is to reduce repair cycle times by repairing or replacing components, modules, and assemblies as far forward as possible, generally at the point of use, while maximizing reliance on trained maintenance personnel, requisite tools, and capabilities designed to support combat power, along with rapid repair parts distribution and visibility. It supports the Army's expeditionary nature by eliminating unnecessary and burdensome redundancies of the four-level maintenance system and by capitalizing on how we perform maintenance while in combat.

The definitions of field maintenance and sustainment maintenance are provided in subsequent chapters of this handbook. However aspects of two-level maintenance where clarification is needed are:

All organizations either conduct field maintenance on assigned equipment or are supported by field maintenance organizations. Organizations that are required to perform field maintenance tasks are fully equipped and manned to perform these tasks; they are designed to support 100% Manpower Allocation Requirement Criteria (MARC) requirements. These organizations perform all field maintenance tasks within their capability, meaning that virtually all maintenance that can be performed in a field environment is accomplished by the owning unit.

As a result, the concept of routine pass-back from one maintenance organization to another no longer exists. Units do not evacuate weapons system in need of repair to a higher echelon of maintenance. The Field Maintenance Company, resident inside the Brigade Support Battalion, provides field level maintenance support for all automotive, ground support equipment, communications-electronic, armament peculiar systems, and limited recovery.

There are exceptions to this such as low density items (small arms, communications/electronics) where a field maintenance organization does not have the personnel or equipment needed to conduct field maintenance. In these instances, the unit must re-

(2) Does the unit maintenance SOP address all aspects of Safety? Ref: DA Pam 750-3, Para 2-2

(3) Is the SOP written in enough detail to give newly assigned personnel a firm understanding of the unit maintenance operations? Ref: DA PAM 750-3, Para 2-2

(4) Is the SOP signed by the current Commander? Ref: DA PAM 750-3, Page 1, Para 2-2

(5) Are there written appointment orders on file for the shops Safety NCO/Officer? Ref: AR 385-10, Para 10-8c & DA PAM 750-3

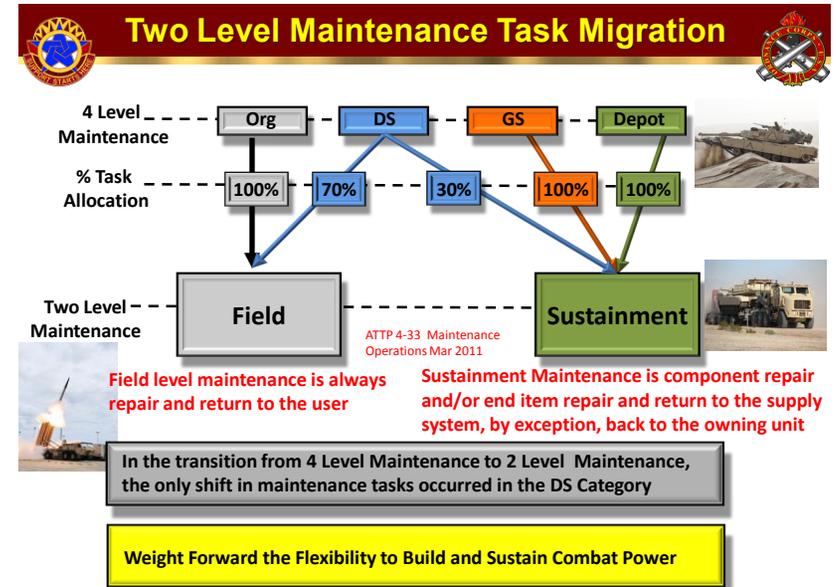
(6) Are all lifting devices stenciled with next inspection due date? Ref: TB 43-0142, Page 6, Para 6f, & PS Magazine 625, Page 17

(7) Are all jack stands stenciled with next inspection due date? Ref: TB 43-0142, Page 6, Para 6f, & PS Magazine 625, Page 17

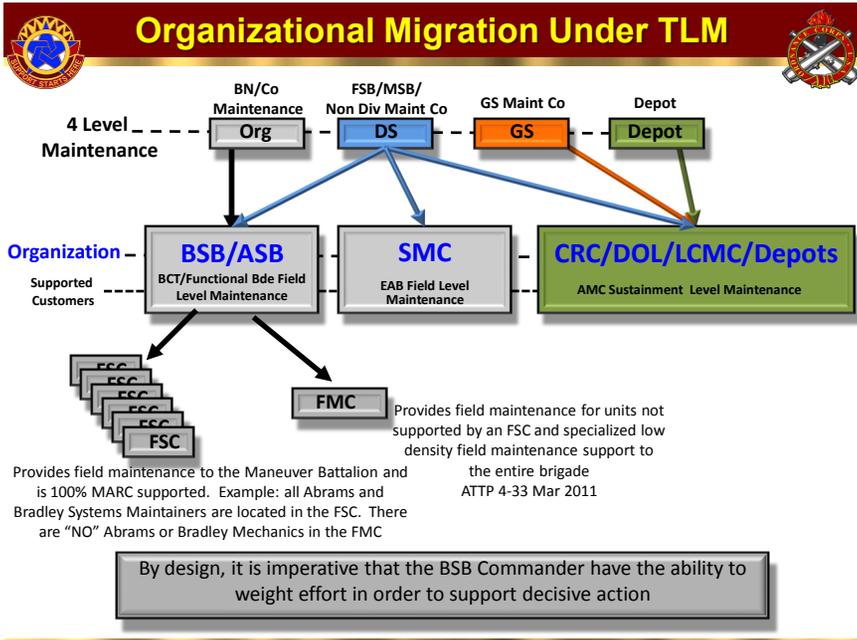
(8) Are service packets maintained with last service on all lifting devices and jack stands? Ref: TB 43-0142, Pg 6, Para 6e & DA PAM 750-8, Para 3-9

quest assistance from a supporting field maintenance organization.

The transformation from Four Level to Two Level consisted of re-allocating maintenance tasks performed by organizations at the highest level of capability. Field maintenance tasks incorporated over 70% of the maintenance tasks. The sustainment tasks from legacy DS were associated with the National Guard Component Repair Companies.



Those tasks were then allocated to transform legacy maintenance organizations. The current design is fully supported by MARC. Commanders have more flexibility, versatility, and capability to build and sustain combat power.



TWO LEVEL MAINTENANCE MISCONCEPTIONS

The claim that *sustainment* maintenance organizations are in place to routinely receive maintenance workload from units that have a large backlog. **This isn't the case.** These organizations perform maintenance on weapons with severe or catastrophic damage and repair the system using a well defined **National Maintenance Standard** for return to the supply system, not to the unit. Sustainment maintenance organizations do have the flexibility to return a weapon system to a using unit if commanders direct it, but this is an exception and not a general practice.

Is there a timeline for repair under field level maintenance? **There are no fixed timelines** for conducting field maintenance tasks. If a unit has the capability to repair the weapon system using field maintenance tasks it will retain the end item in its possession until repairs are complete.

All Sustainment BDE's perform Sustainment Maintenance. **This is not true.** Where they share the same name Sustainment BDE's do Field Level Maintenance on their organic equipment.

Units lost organizational mechanics during the transition to Two Level Maintenance. **This is a myth.** Most units grew maintainers based on the addition of Field task that were previously Direct Support

Units must own all required resources to execute maintenance. **This is a myth.** Doctrine requires commanders to weight the effort which is why Forward Support Companies are "assigned" to the Brigade Support Battalion. Support Maintenance Companies

(9) Have locally manufactured tire cages been certified by DOL Industrial Engineers?
Ref: TM 9-2610-200-14, WP 0013 00-3

(10) Are fire extinguishers in the building serviceable? Ref: Check local Installation or Unit SOPs.

(11) Are the fire extinguishers mounted, located, and identified so soldiers can easily reach them? Ref: Check local Installation or Unit SOPs.

(12) Are exits blocked or locked in a manner to prevent occupants from exiting the building? Ref: Check local Installation or Unit SOPs.

(13) Are the following required Emergency/Rescue Equipment items maintained?
Ref: TB 385-4, Para 3.8.5 & Para 3.8.6

- Safety Hook (See Fig 3-2) Locally Manufactured
- First Aid Kit NSN 6545-00-922-1200
- Flashlight, Army Issue NSN 6230-00-264-8261
- Grounding Stick
- Emergency Procedures/Phone Numbers (Local #'s)

(14) Are the required Emergency/Rescue Equipment items checked monthly?
Ref: TB 385-4, Para 3.8.5

(15) Are pressurized gas cylinders secured to avoid accidental tipping?
Ref: TB 385-4, Para 6.2.3 and FL REG 420-30, Page 4-15, Para 4-6i(2)

(16) Are acetylene and oxygen valves at the cylinders closed and purged with cylinder caps applied whenever the equipment is not in use? Ref: Check local Installation or Unit SOPs

(17) Do personnel working in maintenance areas remove all exposed metal objects from body: bracelets, watches, rings, ID tags, etc? Ref: TB 385-4, Para 3.4.1 & FM 3-04..500, App E

c. Training

(1) Is there a training record on file that verifies personnel have trained on the servicing of single-piece or multi-piece rims and wheel tasks? Ref: AR 750-1, Page 103, Para 8-12e(1) / TM 9-2610-200-14 / WP 0013-00/OSHA 1910.177(c)

(2) Is there a training record on file that verifies personnel have been instructed and trained annually in the use of fire extinguishers? Ref: Check local Installation or Unit SOPs.

(3) Is there a training record on file that verifies personnel have been instructed and trained annually on proper procedures of handling pressurized gas cylinders? Ref: TB 385-4, Para 6.2.3

d. Administrative

(1) Are files labeled and maintained IAW Army Records Information Management System (ARIMS)? Ref: AR 25-400-2

Maintenance Management Shop Safety

1. Task: Manage Shop Safety in a Maintenance Facility
2. Conditions: Given a Maintenance Facility with an assigned Shop Safety OIC/NCOIC, applicable Standard Operating Procedures, Army Regulations and Installation policies and procedures.
3. Standard:
 - a. Are required publications on hand or on order?
 - (1) AR 385-10 The Army Safety Program (Aug 07)
 - (2) DA PAM 750-8 Maintenance Management Update (Aug-05)
 - (3) TB 385-4 Effect of Electrical Current and First Aid for Electrical Shock (Jul 08)
 - (4) TB 43-0142 Safety Inspection and Testing of Lifting Devices (Feb-97) (EM 0178)
 - (5) TB 43-0156 Safety Inspection and Operation of Stand, Vehicle Support (Aug 07)
 - (6) FORSCOM REG 385-1 Forces Command Safety Program w/chg 1-5 (Nov-06)
 - (7) TM 9-2610-200-14 Operators, unit, Direct Support and General Support Maintenance Manual for Care, Maintenance Repair and Inspection of Pneumatic Tires and Inner Tubes (Sep-05) (EM 0178)
 - b. Safety
 - (1) Are chock blocks being utilized when vehicles are being worked on? Ref: AR 385-10, Par 11-2 (d)7 & Para 11-4 (g) 5
 - (2) Are speed limits posted and enforced in the maintenance area and field sites? Ref: AR 190-5 / FL REG 190-5; (10 mph or posted as less)
 - (3) Is smoking prohibited except in designated areas? Ref: AR 600-63, Para 7-3(3)
 - (4) Is Personal Protective Equipment (PPE) being utilized while performing maintenance tasks? Ref: OSHA 29 CFR, Section 1910.133, Page 418
 - (5) Are operators using ground guides when backing or moving any vehicle that has its rear visibility blocked by cargo or other items? Ref: AR 385-10, Page 53, Para 11-4h
 - (6) Are exhaust tubes utilized when vehicles are operated within the maintenance facility? Ref: AR 385-10, Page 54, Para 11-4k (1)
 - (7) Are generators grounded prior to operation or servicing? Ref: Applicable -10/20 Technical Manuals
 - (8) Is the tire safety inflation cage unmounted and at least 3 feet from any object? Ref: TM 9-2610-200-14, WP 0003-00-2, 1c

provide support to those organizations without full maintenance capability.

The Support Maintenance Company is under resourced for TAMMS functions: Readiness reporting, Driver Training, Licensing, CL IX. **This is Unconfirmed.** CASCOM is reviewing the original basis for 92A to evaluate if the requirement has kept pace with expected support expectations.

The Brigade Support Battalion needs to be resourced to provide “passback” maintenance for the BCT. **This is a myth.** If scheme of maneuver requires “passback” maintenance based on OPTEMPO and other METT-TC, then the BSB commander will weight the effort by moving equipment and resources from the Forward Support Companies to support the Brigade Support Area operations.

The Support Maintenance Company needs to be resourced to provide “passback” maintenance for the Brigade Combat Team. **This is a myth.** The BCTs are manned at 100% maintenance man power requirements. There are no weapon system mechanics beyond the BCTs. Support Maintenance Companies are designed to provide area support to units without maintenance capabilities. They may provide limited reinforcing wheeled vehicle, engineer, allied trades, electronic, missile, power generation, and armament support.

There are more units without maintenance capability than the Army has under Army of Excellence. **This is true.** Modularity created a greater number of small plug and play organizations to meet Army requirements. This was the premise of Modularity-small agile, highly modular organizations. These small units would not have received full maintenance capabilities even under the Army of Excellence maintenance policies. This was not a Two Level Maintenance effect.

SAMS-E does not support Two Level Maintenance. **This is a myth.** SAMS-E was designed for a four level maintenance system but does support Two Level Maintenance with some work arounds. SAMS-E is the bridging strategy to GCSS-Army which is designed to support Two Level Maintenance.

The subsequent chapters of this handbook will reinforce and highlight these aspects of two-level maintenance and provide a clearer picture of the system overall.

The nature of the modern battlefield demands that the maintenance system is flexible and responsive, and focused on returning systems to operational status quickly and as near as possible to the point of failure or damage. Maintenance assets move as far forward as the tactical situation permits to return inoperable and damaged equipment to the battle as quickly as possible. Field maintenance accomplishes this mission by isolating faults and replacing failed components.

TWO LEVEL MAINTENANCE

Field Level Maintenance (FLM)

Field Level Maintenance is generally characterized by on-(near) system maintenance, often utilizing line replaceable units (LRU's) and component replacement, in the owning unit, using tools and test equipment found in the unit. Field Level maintenance is not limited to simply "remove and replace" actions but also allows for repair of components or end items on-(near) system. Field maintenance also includes adjustment, alignment, service, applying approved field-level modification work orders (MWO), fault/failure diagnoses, battle damage assessment, repair, and recovery. Field level maintenance is always repair and return to the user, and includes maintenance actions able to be performed by operators.

In today's two-level maintenance environment commanders have to identify all pieces of equipment requiring maintenance. Once done, then it is important to identify where those pieces receive support. Common items are easily supported but other low-density items may only have one or two facilities or key personnel that have the skills or ability to repair them. This process allows you to match your requirements with a capability. If you have unique or low density equipment, you can start working on getting those tools and or skills within your organization. A commander should assist his/her maintenance teams to establish a training program that will support all unit equipment. This will support unit readiness. FLM allows your maintainers to conduct repair on equipment based on their skills and the equipment/tools available to accomplish the repair.

Sustainment Level Maintenance

Sustainment-level maintenance is generally characterized by "off system" component repair and/or end item repair and return to the supply system, or by exception, back to the owning unit. It is performed by national-level maintenance providers (including the Army Materiel Command and Installation DOL Maintenance Activities). The sustainment maintenance function can be employed at any point in the integrated logistics chain.

The intent of this level is to perform commodity-oriented repairs on all supported items to return them to a national standard, providing a consistent and measureable level of reliability, and to execute maintenance actions not performed at the field level of maintenance. Sustainment maintenance supports both operational forces and the Army supply system. There are exceptions when sustainment level maintenance activities may conduct maintenance and return items to the using unit. Sustainment maintenance will normally be performed by industrial-type activities operated by the Army; it may also be performed by contract and interdepartmental or interagency agreement. Sustainment maintenance is comprised of below depot sustainment and depot sustainment.

Army Records Information Management System (ARIMS)

1. Task: Evaluate operational procedures for the maintenance and disposition of records generated by unit functions and administration of information needed to support unit mission, training and maintenance operations.
2. Conditions: Given the personnel, applicable records; verify compliance with applying disposition instructions, scheduling records, using the Army Records Information Management System (ARIMS) with proper structure and use of office symbols.
3. Standards:
 - a. Does the unit have a current ARIMS account established? Ref: AR 25-400-2,
 - b. Does the unit have a current (Approved) Office Records List (ORL)? Ref: AR 25-400-2, Para 5-10
 - c. Are records established, labeled and containers of records / files' labeled IAW ARIMS? Ref: AR 25-400-2, Para 6-2, DA PAM 25-403, Para 3-8
 - d. Are all files separated by series number (Guide Cards)? Ref: DA PAM 25-403, Para 3-5
 - e. Are K records being destroyed IAW disposition instructions and not kept past the business need? Ref: AR 25-400-2, Para 7-1
 - f. Are the active files separated from the inactive files? Ref: AR 25-400-2
 - g. Are transferable files sent to the local RHA or AEA? Ref: DA PAM 25-403, Para 7-1
 - h. Are files cutoff and new files created for the current year per disposition instructions? Ref: AR 25-400-2
 - i. Has the Commander appointed a Unit Records Coordinator/Records Manager? Ref: AR 25-1, Para 8-2 (4,6,7,8)

References:

- AR 25-400-2, The Army Records Information Management System (ARIMS) (www.arims.army.mil)
- AR 25-1, Army Knowledge Management and Information Technology
- DA PAM 25-403, Guide to Recordkeeping in the Army
- Army Records Information Management System (ARIMS) User Guide

References Continued:

DA PAM 25-33, Users Guide Army Pubs & Forms

DA Pam 25-40, Action Officers Guide

DA PAM 750-1, Commanders' Maintenance Handbook

DA PAM 750-3, Soldiers' Guide For Field Maintenance Operations

The preponderance of the Sustainment maintenance workload is accomplished by Army Materiel Command (AMC) organizations; however, some contributions to sustainment functions will be made by other organizations when approved by Headquarters Department of the Army (HQDA). For example, the Army Installation Management Agency (IMA) will provide support to the National Maintenance Program (NMP) in which selected Army Installation Maintenance Management Activities (IMMA) (DOL) will support the Army supply system, in addition to their normal local repair-and-return-to-customer support for installation tenants and others.

A sustainment repair-and-return-program is a process whereby an item of equipment is forwarded to a sustainment maintenance organization, forward repair activity (FRA) or contract facility for repair and the same/like item is returned to the forwarding activity. A memorandum of agreement (MOA) is established between the customer and the sustainment maintenance organization. The rate charged to the customer will be a burdened rate to include all local installation overhead and the applicable Army working capital fund (AWCF) surcharge.

Reset: A balanced process following an extended deployment that systematically restores deployed units to a level of personnel and equipment readiness that permits the resumption of training for future missions. Reset reverses the effects of combat stress on equipment.

Recapitalization (Recap): A process to rebuild and modernize equipment to a near zero time/miles standard that includes technology insertion.

Rebuild: Restore a system to a like-new (near zero time/miles) condition in appearance, performance, and life expectancy. It inserts new technology where practical to improve reliability and maintainability but system retains former performance characteristics.

Repair: The application of maintenance services (field and sustainment), including fault location/troubleshooting, removal/installation, disassembly/assembly procedures, and maintenance actions to identify deficiencies and restore serviceability by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

MAINTENANCE MANAGEMENT (TAMMS)

NOTE: If unit is utilizing Global Combat Support System-Army (GCSS-Army), all checks below must be reviewed for relevance and compliance to GCSS-Army. Some SAMS-E specific checks will not apply to GCSS-Army users. Refer to page 56 for additional information on GCSS-Army.

1. Task: Evaluate the unit's TAMMS program.
2. Condition: Given the Command Maintenance Program, annotated references, equipment, records, and a unit maintenance area, evaluate unit's compliance to published guidance.
3. Standards:
 1. Has the commander appointed a maintenance officer on orders? Ref: AR 750-1, Para 3-7a
 2. Does the unit have one or more school trained Automated Logistical Specialists, (MOS) 92A clerks or does the clerk have a Certificate of Training for SAMS-1E on hand? Ref: DA PAM 750-3, Para 3-2b, 3-4b
 3. Has the SAMS-E/TAMMS Clerks attended the Installation SAMS-E course provided by the installation? Ref: DA ALARACT 070/2012
 4. Has the commander appointed an individual to perform duties as the SAMS-1E administrator? Ref: SAMS E END USER MANUAL (EUM)
 5. Have the maintenance supervisors; officers, warrant officers and non-commissioned officers attended an installation Maintenance Managers course provided by the Installation? Ref: If applicable
 6. Does the unit send the SAMS-1E maintenance data (SAMS support maintenance) to the SAMS-2E support maintenance activity daily? Ref: DA PAM 750-8, Para 3-6
 7. Database backups are done on CDRs 3 recommended. Does the unit have a current systems backup and are they label and stored in their cases? Ref: DA Pam 25-403, Appendix B-3,13(b) (c); SAMS-E Leader's Guide, SAMS E END USER MANUAL (EUM)
 8. Has the latest FED LOG been installed into the SAMS-1E systems? Ref: DA PAM 750-3, Para 3-6, SAMS E END USER MANUAL (EUM)
 9. Is the current MMDF loaded in the SAMS-1E systems? Ref: DA PAM 750-3, Para 3-6, SAMS E END USER MANUAL (EUM)

(13) Is Document Automaton & Production Service (DAPS) the primary source in the PCO's SOP for local printing? AR 25-30 Para 7-1

Document Automation & Production Service
2705 Indiana Avenue, 798-6514 Fax 798-9444
E-mail: dan.simons@dla.mil

b. Administrative: Office Files (ARIMS)

1. Does the PCO have an office records list (ORL)? Ref: AR 25-400-2, DA PAM 25-403
2. Are folders properly labeled with ARIMS information and disposition instructions? Ref: AR 25-400-2, Para 6-2, DA PAM 25-403, Para 3-4
3. Are containers containing records labeled as to their contents? Ref: AR 25-400-2, Para 6-2, DA PAM 25-403, Para 3-9
4. Does administrative / maintenance offices have in their standing operational procedures a copy of their supporting agencies contact information?
 - (a) Fort Campbell PCO
Mrs. Garcia Bell
Publications Control Officer
DHR/DOC MGMT BR
Bldg 91 Michigan Ave
Phone: 270-798-2489 (DSN: 635)
garcia.bell.civ@mail.mil
 - (b) FORSCOM Pubs Site
<https://firepass.forscom.army.mil>
FCC Portal FORSCOM web site, select publications
 - (c) Battalion / BDE external procedures for obtaining support or assistance (S1, S2, S3, S4)
 - (d) Army Publications Directorate web site.
<http://www.apd.army.mil>
 - (e) ARIMS web site
<https://www.arims.army.mil>
5. Does the PCO understand their overall responsibility to support the unit's entire publications needs to standards found in DA Pam 25-33, Chapter 5 and the "HOW" of AR 750-1 for maintaining assigned equipment and property accountability? Ref: AR 710-2, Para 2-10, Table 2-2, AR 750-1 Para 3-2, DA PAM 750-1 Para 1-11, Para 5-2

References:

AR 25-30, Army Publishing Program

AR 25-400-2, Army Records Information Management System

Maintenance Management (Publications, Files)

1. TASK: Evaluate the Unit publications account and filing systems required to sustain maintenance management, unit training & mission preparation.
2. CONDITIONS: Given the personnel, applicable records, evaluate unit's compliance to published standards for maintaining an effective publication account and records file system to support unit training, maintenance and mission.
3. STANDARDS:
 - a. Administrative: Publications
 - (1) Is there an individual appointed on a DA Form 12R by the commander as the publication control officer for the unit? Ref: DA PAM 25-33, Para 2-2
 - (2) Does the PCO have an SOP that defines how the account is managed for publications & blank forms? Ref: DA PAM 25-33, Para 5-1, DA PAM 750-3, Chapter 2
 - (3) Is the publications control officer and functional area managers properly trained in establishing and maintaining their pubs account? Ref: AR 25-30, Para 1-28
 - (4) Are subaccount identifiers issued to and used by all personnel/sections when reordering publications or blank forms? Ref: DA PAM 25-33, Para 3-11
 - (5) Has the PCO trained personnel issued subaccount identifiers and are they familiar with and have access to the references listed above? Ref: AR 25-30, Para 1-28
 - (6) Does the PCO have a distribution list of subaccount holders with contact information, i.e., phone #, location and date trained in their files? Ref: DA PAM 25-33, Para 5-1
 - (7) Does the unit PCO have an internal distribution scheme showing each sub account's initial distribution quantity of publications and forms required? Ref: AR 25-30, Para 1-28, DA PAM 25-33, Para 5-1
 - (8) Are copies of ID requirements / changes or resupply orders reflected on valid requests retained in the PCO's file? Ref: DA PAM 25-33 Chap. 5
 - (9) Does the PCO and subaccount manager have a current publication subscription list reflecting all required publications, maintained in their file systems? Ref: DA PAM 25-33, Para 5-1, DA PAM 750-3, Para 3-4, FN: 1P1
 - (10) Are required paper publications & blank forms, as a minimum, on hand, Internet accessible or on a valid request? Ref: AR 25-30, AR 750-1, Para 6-6, DA PAM 750-3, Para 3-4
 - (11) Does the PCO have a method to track resupply of publications in the SOP for due in and issue to subaccount holders? AR 25-30, Para 1-28, DA PAM 25-33, Chap 5
 - (12) Does the PCO have an established procedure in the SOP for local printing of required EMOs, Forms? DA PAM 25-40, Chap 14-16 a.

10. Does the SAMS-1E site have a Continuity of Operations Plan (COOP) in place? Ref: SAMS E END USER MANUAL (EUM)
11. Is sufficient time blocked in the unit's training schedule specifically for the performance of unit level PMCS (-20 level scheduled services)? Ref: DA PAM 750-3, Para 3-1 (3)(4)
12. Are Equipment Record Folders maintained in the Motor Pool and controlled by the dispatcher? Ref: DA PAM 750-1, Para 4-4 b(e)4, DA PAM 750-8, Para 2-2 c(3)
13. Does each piece of equipment that is dispatchable have an equipment folder? Ref: DA PAM 750-8, Para 2-8, (3)c
14. Do the equipment folders contain an SF 91, and two DD Form 518 cards? Ref: DA PAM 750-8, Para 2-8 b (1), Para 2-2 d (6)
15. Has the unit commander appointed a dispatcher in writing? Ref: DA PAM 750-8, Para 2-2b
16. Is off post & extended dispatch approving authority in writing or covered in the SOP? (Installations may have their own policy)
17. Are Alert Dispatches printed and kept on file until needed and once used, a new set is printed and kept on file? Ref: DA PAM 750-8, Para 2-10 a (5)
18. Does the unit dispatcher inspect drivers licenses before dispatching equipment? Ref: DA PAM 750-8, Para 2-2 c (2), Para 2-3 c (2)
19. Is the Dispatch form signed by the dispatcher and the operator? Ref: DA PAM 750-8, Fig 2-7
20. Is the dispatcher/supervisor ensuring that the operator is closing out the dispatch; i.e., mileage / hours, fuel, oil, and 2nd operator? Ref: DA PAM 750-8, Para 2-2 c (4), Para 2-10 b (1)
21. Does the mileage/hours on SAMS-1E accurately reflect the mileage/hours of the equipment? Ref: DA PAM 750-8, Para 2-2 d(8), Para 2-4 a (2), Fig 2-7
22. Is the unit inspecting and validating 25% of equipment usage data in SAMS-E and comparing it to equipment for validation monthly and is the Command Maintenance Discipline Program (CMDP) monitor maintaining copies of actions and results? Ref: DA ALARACT 070/2012
23. If 20% of equipment validated is incorrect is the CMDP monitor ensuring unit is conducting 100% usage data scrub and maintaining copies of actions and results? Ref: DA ALARACT 070/2012

24. Are dispatches returned on or before the due date? Ref: DA PAM 750-8, Fig 2-7

25. Is equipment requiring services based on hours, being dispatched when placed in operation? Ref: DA PAM 750-8, Para 2-10 a (2)

26. Are dispatches kept on file if the equipment is involved in an accident? Ref: DA PAM 750-8, Para 2-10 b (3)

27. Are equipment services scheduled properly IAW applicable equipment technical manuals and/or lubrication orders with the correct interval, mileage or hours in the SAMS-1E? Ref: AR 750-1, Para 2-17(15), Para 3-9, AR 750-3 Para 3-1, DA PAM 750-8, Para 3-7 g, Para 3-7 (b)

28. Are annual required verifications for weapons/NVD's such as gauging & night sight high-low resolution test; entered and scheduled in the SAMS-1E to forecast next due date? Ref: DA PAM 750-8, Para 3-7b, Fig 3-9, Para 3-9b

29. When service exceeds the 10 percent variance, is equipment administratively designated NMC until the service is completed? Ref: AR 750-1, Para 3-2 (6), DA PAM 750-8, Para 3-9 (h) 4

30. Is corrective action taken on all faults found during scheduled services? Ref: AR 750-1, Para 3-2 a (3), Para 3-1b(2) (b)

31. Are completed service packets on hand for each piece of equipment? Ref: DA PAM 750-3, Para 3-2 d (3), DA PAM 750-8, Para 3-10 f (2)(3)

(a) Original DA Form 5988-E PMCS (with Signatures and corrective actions initials)(operators submit with equipment to be services).

(b) Original DA Form 5988-E PMCS used for quality control inspection to close out service (with signatures and corrective action initials).

(c) Updated DA Form 5988-E with all uncorrected faults and parts required entered in SAMS-1E upon completion of the service.

(d) Copy of closed dispatch form for road test upon completion of scheduled service.

(e) Close out service job order DA Form 2407-E. Ref: DA PAM 750-8, Para 3-14 d(4) (a)

32. Does the quality control representative check all corrected status symbol "X" faults and then initial the status symbol? Ref: DA PAM 750-8, Para 3-10 e(1), Para 3-10 (e)(6)(a)3

References Continued:

DA PAM 750-3

DA PAM 750-8

FM 55-30

TB 600-1

TB 600-2

TC 21-305 Series

TC 21-306

SAMS-E End User Manual

(12) Are accident avoidance classes scheduled for operators who last attend the class more than 4 years ago? Ref: AR 385-10, Para 11-7, a(5)(b) Army Traffic Safety Program (On line test for operators <https://www.lms.army.mil>) AR600-55, Para 4-1h(2)

(13) Have Soldiers less than 26 years of age received Intermediate Traffic Safety Training Course? Ref: AR 385-10, Para 11-7, a (3)

(14) Is there an established road test route and does it meet the requirement IAW AR 600-55, Para G-2?

(15) Are road test score sheets used and filled out IAW AR 600-55, Para G-4?

(16) Is additional training provided for operators who transport hazardous material and are their licenses annotated with the qualification? Ref: AR 600-55, Para 4-9 FORSCOM/ARNG REG 55-1, Appendix K-5.a.(7)

(17) Are unit instructors familiar with the subjects in paragraph 4-9b, and must be certified in writing by the commander as qualified instructors for familiarization training on transporting hazardous materials?

(18) Are operators who drive emergency vehicles trained IAW AR 600-55, Appendix H?

(19) Are the five phases of NVG training conducted IAW AR 600-55, Appendix 1-2?

(20) Are operators who haven't participated in an NVG mission within the past six months scheduled for refresher training? Ref: AR 600-55, Para 8-6

e. Mechanical / Ground Support Equipment

(1) Are there training plans established for ground and mission unique equipment? Ref: AR 600-55, Para7-1a, TB 600-1,Para 3, TB 600-2, Para 1.3

(2) Are ground support equipment operator qualifications annotated on the DA Form 348, Section I? Ref: AR 600-55, Fig 4-1

(3) Are all ground support equipment training annotated on operators DA Form 348, Section III? Ref: AR 600-55, Fig 4-1

References:

AR 25-400-2

AR 385-10

AR 600-8-22

AR 600-55

AR 611-5

AR 750-1

33. Are necessary service items on hand on or valid request to support the services? (i.e., filters, seals, etc.) Ref: AR 750-1, Para 3-2 b (3)

34. Does the unit have equipment entered into the low usage program? Ref: AR 750-1, Para 4-2, DA PAM 750-8, Para 3-9 (10) a

35. Were all services and lubrication tasks in the equipment -20 and -34 series TMs/Lubrication order (LO) preformed before equipment was placed into low usage status? Ref: AR 750-1, Para 4-2(b), DA PAM 750-8, Para 3-9, 10 (b) 1

36. Is the date,miles,kilometers,or hours when the equipment was placed into low usage status entered into SAMS-1E? Ref: AR 750-1, Para 4-2 b, DA PAM 750-8, Para 3-9,10 (b), and FIG 3-24. Note: This will be entered on the DA Form 5988-E.

37. Is equipment that is entered into the low usage program being inspected and exercised by the operator semiannually? Ref: AR 750-1, Para 4-2 j, DA PAM 750-8, Para 3-9, (e) 8a b, Para 2-10 a (4)

38. Are equipment operators using the DA Form 5988-E (Equipment Maintenance and Inspection Worksheet) for their Before, During and After operator checks and services? Ref: DA PAM 750-8, Para 2-2 d (3)

39. Are uncorrected maintenance faults correctly recorded and are the proper status symbols being used on the DA Form 2404/DA Form 5988-E? Ref: DA PAM 750-8, Para 3-10 e, Para 3-10 b(4)

40. Does the unit update the DA Form 5988-E when parts are installed on the equipment? Ref: AR 750-1, Para 3-2 (a), DA PAM 750-8, Para 3-10 d (2)

41. Do Maintenance personnel evaluate uncorrected faults, are required repair parts identified and ordered properly and does the part on order match the maintenance fault section of the work sheet? Ref: DA PAM 750-8, Para 3-10, Fig 3-29

42. Do equipment quantities for DA Reportable equipment in the SAMS-1E system match the on hand QTY listed on the unit Property Book? Ref: AR 220-1, Para 1-6, 6-1, 6-5, AR 700-138, Para 1-19, DA PAM 750-1, Para 4-9, (Hand Receipt scrub) MMDF

43. Is all DA Reportable equipment on hand, or on hand any time during the reporting period being reported through AMSS? Ref: AR 700-138, Para 2-6, 2-7 and 6-2

44. Do unit authorizations reflect authorized and required quantities by MTOE and does the unit property book match the equipment loaded in SAMS. Ref: SAMS E END USER MANUAL (EUM)

45. Are all reportable systems and weapons systems properly entered and configured in SAMS-1E according to the MTOE requirement (LIN) and the MMDF? Ref: AR 700-138, Table B-2 of the current MMDF

46. Does the unit have the latest MTOE on hand? Ref: AR 700-138, Para 2-6 a (1)

47. Is the unit commander or his designated representative reviewing the SAMS-1E NMC report daily for accuracy and to ensure all data is updated and correct? Ref: DA PAM 750-1, Para 2-8 a(4), Para 4-6

48. Does the unit have on hand, in submission form, the previous 6 months of the AMSS (awame 130.dat) report? Monthly AMSS data file (awame 130.dat) will be retained at the AMSS site for six months. Ref: AR 700-138, Para 2-8b

49. Are high priority maintenance request forms, signed & authenticated by authorized personnel? Ref: DA PAM 750-8, Fig 3-36 & Fig 3-37

50. Does the unit have on hand all DA Form 2407-E or DA Form 2407 maintenance request receipts for equipment in support maintenance? Ref: DA PAM 750-8, Para 3-13 b (1)

51. Are the DA Form 2407 and DA Form 2407-E maintenance request receipts and file copies properly completed? Ref: DA PAM 750-8, Fig 3-36, Fig 3-37

52. Are completed maintenance request DA FORM 2407-E and DA FORM 2407 (SAMS-1E unit copy) on file for 90 days after the equipment is repaired or replaced? Ref: DA PAM 750-8, Para 3-14 d

53. Can the unit access Electronic DA Form 2408-9 from LOGSA's website: <https://weblog.logsa.army.mil> and do they have a log book copies on file? DA PAM 750-8, Para 5-7 c (2)

54. Are files managed under The Army Records Information Management System (ARIMS)? Ref: AR 25-400-2

References:

- | | |
|------------------|-----------------|
| a. AR 25-400-2 | f. DA PAM 750-8 |
| b. AR 220-1 | g. TB 43-PS-622 |
| c. AR 700-138 | h. TB 750-651 |
| d. AR 750-1 | i. DA PAM 750-1 |
| e. SAMS-1E (EUM) | j. DA PAM 750-3 |

f. Appropriate equipment training Ref: AR 600-55, 1-4g(3), Para 4-2a, Para 6-1b, Para 8-4b

g. Annual records review Ref: AR 600-55, Para 4-1b(5)(6), Para 4-4b

h. Road and Written test results Ref: AR 600-55, Para 4-3c

i. State driver's license information Ref: AR 600-55, Para 3-4a, Para 6-4b1

(7) Is DA Form 5984-E stamped or marked with the words " ARMY STANDARD, ARMY LEARNER, ARMY LIMITED or ARMY INCIDENTAL"? Ref: AR 600-55, Para 6-1d

(8) Are soldiers without civilian driver's licenses, DA Form 5984E annotated with "ARMY LIMITED" ? Ref: AR 600-55, Para 2-3b.(1&2), Para 6-3d

(9) Is there a procedure in place for reviewing and updating all operator qualification records at least annually? Ref: AR 600-55, Para 4-1, b. (5), Para 4-4 a b

(10) Are Driver Badges being awarded for operators to denote the high degree of skills in the operation of Motor Vehicles? Ref: AR 600-8-22, Para 8-31

d. Training & Licensing

(1) Are licensed operators given annual sustained training? Ref: 600-55, Para 4-4a

(2) Are first line leaders conducting annual check rides? Ref: 600-55, Para 4-4b

(3) Are seasonal training programs, such as winter driving established? Ref: AR 600-55, Para 4 -4

(4) Are the training requirements and standards for training, testing and licensing of operators being conducted IAW AR 600-55, Para 1-4 g , Para 4-3a,c, Appendix D-4d, E, G-1e?

(5) Does the driver's training program correspond with the requirements listed in appendix E of AR 600-55?

(6) Are Training instructors selected IAW 600-55, Appendix F-1?

(7) Does the unit have access to a "Reaction Time" test machine? Ref: AR 600-55, Appendix D, D3, TM 5-6930-600-12&P, Driver Training and Testing Device, Portable, NSN 6930-00-526-3639

(8) Are learner's permits only issued to perspective operators after they have met the safety and orientation requirements outlined in AR 600-55, Para 6-3b?

(9) Are learner's permits valid for 90 days or less? Ref: AR 600-55, Para 6-3b

(10) Are test materials secured IAW AR 611-5, Para 3-1,c? Ref: AR 600-55, Para 5-4,b

(11) Has the unit established model specific equipment class codes for use during licensing procedure? Ref:SAMS-1E EUM

(2) Does the unit keep a duplicate (DA Form 348) on file? Ref: DA PAM 750-8, Chap 2, Para 2-1c

(3) Are National Drivers Register checks being completed on soldiers who report in without a state Driver licenses or suspect their state driving privileges are suspended or revoked? Ref: AR 600-55, Para 3-4 b, 1 thru 2c

(4) Are operator's permits revoked when their state license has been revoked? Ref: AR 600-55, Para 2-3b (2), Para 3-4 b, Para 6-4 d

(5) Are traffic violations, if any, annotated on the operator's qualification record? Ref: AR 600-55, Para 4-1(7) f, .

c. DA Form 348, DA Form 348-1-R and DA Form 348-E

(1) Do operator's permits and qualification records reconcile properly and are they filled out properly? Ref: AR 600-55, Para 4-1 (7)(9) & Fig 4-1, DA PAM 750-8, Chap 2, Para 2-1c, SAMS-1E EUM

(2) Are newly assigned or visiting drivers or equipment operators being instructed in local regulations and operating procedures? Ref: AR 600-55, Para 6-2(d)

(3) Do the operator qualification records reflect appropriate training in Section III to support type of equipment in Section I? Ref: AR 600-55, Para 4-1b, Figure 4-1, Block 25

(4) Do licenses expire on the same date the operator's state license expires or 5 years from date of issue? Ref: AR 600-55, Para 4-4b, Para 6-2b.1 Battalion may elect 1 year instead of 5 for validating annual training requirements

(5) Is the issuing authority maintaining a ledger with all permits issued? Ref: AR 600-55, Para 5-1d. (Automated versions of the ledger are authorized as long as they include all data fields listed in Para 5-1d)

(6) Are, at a minimum, the following remarks annotated on every operator qualification records DA Form 348, DA Form 348-1-R and DA Form 348-E? Ref: AR 600-55

a. Commander interview (annotated on the DA Form 348 or does the operator have a Memorandum for the Commanders interview in his or her Drivers Packet) Ref: AR 600-55, Para 3-2, Appendix B, B-2

b. Accident avoidance or DDC Ref: AR 385-10, Para 11-7a(5), AR 600-55, Para 1-4h(2), Para 4-3b

c. Operator Training Class (40hrs minimum) Ref: AR 600-55, Para 4-3a, Appendix E

d. Eye Exam / Annual Hearing test Ref: AR 600-55, Fig 4-1 Block 38-47, Appendix D-5, D-6, D-10

e. Individual driving restrictions / limitations Ref: AR 600-55, Para 3-3 a(1), Para 3-3b, Para 6-3, Appendix C-5

k. SAMS-E Leader's Guide

Maintenance Management (Maintenance SOP)

1. Task: Evaluate the unit maintenance SOP.

2. Conditions: Given the unit maintenance SOP, annotated references, and a unit maintenance area, the unit must comply with the published guidance for overall effectiveness.

3. Standards:

(1) Has the unit established a unit maintenance SOP? Ref: AR 750-1, Para 3-7b, DA PAM 750-1, Para 3-3b(1) DA PAM 750-3, Para 2-1

(2) Is the unit maintenance SOP signed by the current Commander? Ref: AR 750-1, Para 3-7b, DA PAM 750-3, Para 2-2

(3) Does the unit maintenance SOP describe the way the unit performs maintenance on all assigned equipment? Ref: DA PAM 750-3, Para 2-1

(4) Is the unit maintenance SOP written with enough detail to give recently assigned personnel a clear understanding of how maintenance is to be accomplished in the unit? Ref: DA PAM 750-3, Para 2-1, ATTP 4-33

(5) Does the unit maintenance SOP address, at a minimum, the functional areas as reflected in AR 750-1, Appendix D-8 b1, DA PAM 750-3, Para 2-3?

References:

a. AR 750-1

b. DA PAM 750-1

c. DA PAM 750-3

d. ATTP 4-33

OPERATOR TRAINING & LICENSING

TASK: Evaluate the unit's ability to maintain an operator selection, training and licensing program.

3. CONDITIONS: Given the unit maintenance SOP, personnel, applicable records, required publications and references in paragraph 1 the unit must ensure qualified operators are available to operate assigned equipment.

4. STANDARDS:

a. Miscellaneous

(1) Is there a current signed SOP/Annex on hand that covers all aspects of the unit Driver's Training program? Ref: DA PAM 750-3, Para 2-3 g,(1) (2)(3), Para 4-6g,d

(2) Does the unit Maintenance Manger SOP or Annex for Driver's Training reflect how the Drivers Training program will be conducted during field operation, recovery and possible future deployments? Ref: DA PAM 750-3, Chapter 2

(3) Are the references listed in paragraph 1 available? Ref: DA PAM 750-3, Para 3-5

(4) The battalion commander is the issuing authority for all licenses. Does he sign the unit's licenses? If not, has he delegated his authority to the issuing official or a representative in writing? Ref: AR 600-55, Para 6-1a

(5) Are company Commanders or authorized representative interviewing driver candidates IAW AR 600-55, Para 3-2a, Para 3-3a(1), Appendix B, B-3?

(6) Are all instructors / examiner appointed in writing, to train and test on authorized type of vehicle or equipment to include NVGs by the battalion commander? Ref: AR 600-55, Para 1-4 g (3), Para 4-2a, Para 6-1b, Para 8-4b

(7) Is there an individual designated by the commander to review and maintain the operator's qualification record DA Form 348 appointed in writing? Ref: AR 600-55, Para 1-4 h(3), Para 4-1 (6)

(8) Are all operator's licenses and qualification records generated and maintained with the SAMS-1E computer? Ref: AR 600-55, Para 4-1b2

(9) Are files managed under The Army Records Information Manage System (ARIMS)? Ref: AR 25-400-2

b. Are unit personnel folders established and controlled to validate training and documentation? i.e., Commanders interview, Eye Exam / Annual hearing test, Appropriate equipment training, Annual review, Annual Check rides, Road and Written test results and State driver's license information, etc.

(1) Once information is transcribed from the manual DA Form 348 into the SAMS-1E computer entered on (DA Form 348-E) is the manual form returned to the individual? Ref: AR 600-55 Para 4-1(10)

Maintenance Management (Auto/Eng Equipment PMCS)

1. Task: Maintain Automotive/Engineer Equipment.

2. Conditions: Given MTOE/TDA equipment, personnel, applicable records and required publications.

3. Standards: 10% of all like equipment, with 70 percent pass rating.

a. Equipment inspected must have all deficiencies annotated correctly on the 5988E IAW the Preventive Maintenance Checks and Services (PMCS) standards in the application technical manual. Ref: Applicable TM, AR 385-10 and DA PAM 750-8.

b. Equipment inspected will not have more than 6 deficiencies noted by the inspector and not found by operator. Ref: AR 385-10, Para 11-2, AR 750-1 Para 3-2, DA PAM 750-8.

c. Is the assigned operator performing the PMCS and is he or she properly licensed on equipment? Ref: AR 750-1, Chpt 4 and AR 600-55.

d. Services data on DA Form 5988E must be scheduled IAW applicable Lubrication Order (LO) and/or technical manual. Ref: DA PAM 750-8 or SAMS-1E End Users Manuals.

e. Publications, with changes, must be on hand or on a valid requisition. Ref: DA PAM 25-30.

f. All BII, including first aid kit, highway warning kit and fire extinguisher (s) must be installed IAW the -10 technical manual. Items missing must have a valid requisition document at the time of inspection. Ref: AR 750-1, Para 3-2a(8).

References:

- a. AR 385-10, The Army Safety Program
- b. AR 600-55, The Army Driver and Operator Standardization Program (Selection, Training, Testing and Licensing)
- c. AR 700-138, Army Logistics Readiness and Sustainability
- d. AR 750-1, Army Material Maintenance Policy and Retail Maintenance Operations
- e. DA Pam 750-8, Functional Users Manual for The Army Maintenance Management System (TAMMS)

y. Does the commander or maintenance officer approve the bench stock list semi annually?

Ref: AR 710-2, Para, 2-24b

z. Is shop stock inventoried quarterly and approve by the commander semi annually? Ref: AR 710-2, Para 2-23 j,i

aa. Are any excess items turned in within 10 days of the review? Ref: AR 710-2, Para 2-23 (3)

e

ab. Is there an established plan to replenish bench and shop stocks? Ref: AR 750-1, Para 3-6 b (2)

ac. Do bench stock items meet the stockage criteria of CIIC U or J, SARP U only? Ref: AR 710-2, Para 2-24 c (1)

ad. Are quantities on hand below minimum stockage levels, and are there document numbers in the DCR to show replenishment has been initiated? Ref: DA PAM 710-2-2, Para 23-3 (6)

af. Does the unit have SSL to support all maintenance operations, ie COMMO, CBRN, ARMS ROOM and ATOMOTIVE? Ref: AR 710-2 Para 3-6 (2), (a), (b)

ag. Does the unit control the keys and access to the SSL storage facility? Ref: AR 190-51, Appendix D-3

ah. Is the required Off Limits To Unauthorized Personnel sign and access roster posted at the entrance of the storage facility? Ref: AR 190-51, para 3-11,c (d)(3)

ak. Do the storage facility doors provide adequate security, ? No nails or screws for hinges? Ref: AR 190-51, Para 3-11, Appendix B-2

References:

AR 25-400-2, The Army Records Information Management System (ARIMS)

(www.arims.army.mil)

AR 190-51, Security of Unclassified Property

AR 700-15, Packaging of Materiel

AR 700-138, Army Logistics Readiness and Sustainability

AR 710-2, Supply Policy

AR 750-1, Army Material Maintenance

DA PAM 25-33, User's Guide For Army Publications and Form

DA PAM 710-2-1, Unit Supply System

DA PAM 710-2-2 ,Supply Support Activity Supply System

DA PAM 750-3 ,Soldiers' Guide for Field Maintenance Operations

(www.apd.army.mil)

DA PAM 750-8 ,Army Maintenance Management System.

(www.aeps.army.mil) (www.liw.army.mil)

SAMS-1E End User Manual, (EUM).

SAMS-1E LEADER'S GUIDE

ALARACT 202/2007 DA Guidance for Maintenance Stock Policy For Units Operating

with SAMS-E

Maintenance Management (SP Purpose/QM Equipment)

1. Task: Evaluate operational procedures for the maintenance and disposition of records generated by unit functions and administration of information needed to support unit mission, training and maintenance operations.

2. Conditions: Given the Equipment & Table of Organization, personnel, applicable records; verify compliance with applying disposition instructions, scheduling records, using the Army Records Information Management System (ARIMS) with proper structure and use of office symbols.

3. Standards:

a. Does the unit have a current ARIMS account established? Ref: AR 25-400-2,

b. Does the unit have current (Approved) Office Records List (ORL)? Ref: AR 25-400-2, Para 5-10

c. Are records established, labeled and containers of records / files' labeled IAW ARIMS? Ref: AR 25-400-2, Para 6-2, DA PAM 25-403, Para 3-8

d. Are all files separated by series number (Guide Cards)? Ref: DA PAM 25-403, Para 3-5

e. Are K records being destroyed IAW disposition instructions and not kept past the business need? Ref: AR 25-400-2, Para 7-1

f. Are the active files separated from the inactive files? Ref: AR 25-400-2

g. Are transferable files sent to the local Records Holding Area or Army Electronic Archive? Ref: DA PAM 25-403, Para 7-1

h. Are files cutoff and new files created for the current year per disposition instructions? Ref: AR 25-400-2

i. Who has been appointed as the units Records Coordinator/Records Manager? Ref: AR 25-1, Para 8-2 (4,6,7,8)

j. Are required publications complete with all changes posted on hand or valid requisition ? Ref: DA PAM 25-30 & 25-40, Appendix E

k. Slings / Cargo Nets

(1) Are all inspected items clean, complete, serviceable and properly sub-hand receipted to user? Are shortages on valid requisition? Ref: Applicable TM, AR 710-2,

- (2) Are all slings maintained and marked IAW current safety requirements?
- (3) Are semi-annual inspections conducted? Ref: TM 10-1670-295-23&P, Para 2-35 & Table 2-1 & 2-2, FM 10-450-3 Chap 6,7, & 8.
- (4) Are completed service packets (DA Form 5988-E or DA Form 2404 on file until the next semi-annual inspection? Ref: DA PAM 750-8, Chap 3, Para 3-10,d (2)
- (5) Are required publications, with changes posted, on hand or on valid requisition? Changes will be posted as specified IAW DA PAM 25-30 & 25-40, Appendix E

k. POL Equipment.

- (1) Is all inspected POL equipment clean, complete, serviceable and properly sub-hand receipted to user? Are all shortages on valid requisition? IAW Applicable TM, AR 710-2, Chap 2, Para 2-10, DA PAM 710-2-1, Chap 2, Para 2-1
- (2) Are equipment services properly scheduled and performed? Ref: Applicable TMs, DA PAM 750-8, Chap 3
- (3) Are service packets maintained (DA Form 2404 & 5988-E) and complete? Ref: DA PAM 750-8, Chap 3, Para 3-10 d (2)
- (4) Do operators have in their possession a valid OF 346/DA Form 5984-E? Ref: AR 600-55, Para 1-4
- (5) Are required publications, with changes posted, on hand or on valid requisition? Changes will be posted as specified IAW DA PAM 25-40, Appendix E

e. Camouflage and Support System.

- (1) Are all inspected camouflage systems clean and serviceable IAW applicable TM's?
- (2) Are inspected camouflage systems complete and properly hand receipted to the user? Are any shortages on valid requisition? Ref: AR 710-2, Para 2-10h, DA PAM 710-2-1, Para 2-1
- (3) Are required publications, with changes posted, on hand or on valid requisition. Changes will be posted as specified IAW DA PAM 25-30 & 25-40, Appendix E.

f. Reverse Osmosis Water Purification Unit (ROWPU).

- (1) Are all inspected ROWPU's clean, serviceable and properly sub-hand receipted to user? Are all shortages on valid requisition? Ref: Applicable TM & AR 710-2, Para 2-10 h, DA PAM 710-2-1, Para 2-1

- l. Are Commanders Exception Reports printed, reviewed, initialed and signed by commander or his or her designated representative to include UND "A", "B" and high dollar request prior to sending request to the SSA and maintained for a period of two years? Ref: AR 25-400-2, AR 710-2, Para 2-6d, DA PAM 710-2-1, Para 2-3b, DA PAM 750-8, Para 3-21a

- m. Is a copy of the most recent Class IX Customer Reconciliation report (recon) on hand and filled out properly? Ref: DA PAM 710-2-1, Para 2-31 k, Para 2-31 i, (1-5)

- n. Are Inactive Document Control Registers (purge DCR on the first working day of the month) maintained for a period of two years? Ref: AR 25-400-2, DA PAM 710-2-1, Para 2-23c

- o. Does the Parts Received Not Installed listing reconcile with the parts located in the equipment parts bin? Ref: DA PAM 750-8, Para 3-7, SAMS-1E EUM Section 8.2.11.4.12

- p. Are all authorized repair parts on hand or on request? Ref: AR 710-2 Para 2-23 and 2-24

- q. SSL Inventory. Inspector will spot check 20% of the units SSL (10% Shop Stock and 10% Bench Stock)

	Shop Stock	Bench Stock
(a) Total lines	_____	_____
(b) O-Bal Lines	_____	_____
(c) Lines inventoried	_____	_____
(d) Line that matched	_____	_____

- r. Are non demand supported Shop Stock lines in excess of 10%? Ref: AR 710-2, Para 2-23 d

- s. Are parts packaged to prevent damage and deterioration and to provide for efficient and economical handling? Ref: AR 700-15, Para 2-1

- t. Does the unit have the capability to move its SSL into combat in one lift using organic transportation? Ref: DA PAM 710-2-1, Para 8-1b

- u. Are high priority repair parts being installed as they are received and are others installed at least weekly during the unit's command maintenance period? Ref: AR 750-1, Para 3-1,3 b, Local SOP

- v. Does the unit conduct and document causative research for losses of small arms parts with a CHIC other than "U"? Ref: AR 710-2, Table B-1, I, 6, Para 2-12, Para 2-23j

- w. Are Small Arms Repair Parts coded as "pilferable" or "sensitive" stored separately from other Class IX items in a locked container in the unit shop supply storage area? Ref: AR 710-2, Para 3-34b.1

- x. Are measures in place to ensure that the small arms repairer is not also the shop stock clerk? Ref: AR 710-2, Para 2-23 k

Shop Supply Listing Operations (SSL)

1. Task: Evaluate the units SSL program IAW standards of the Organizational Command Supply Discipline Program.
2. Conditions: Given the Command Supply Discipline Program, the references in Para 1, and a unit maintenance area, the commander and/or his/her staff evaluates unit compliance to publisher guidance and overall effectiveness of a unit Command Supply Discipline Program.
3. Standards:
 - a. Does the unit have an SOP/annex addressing Bench and Shop stock operations and is it being used? Ref: AR 750-1, Para 3-7, DA PAM 750-3, Chapter 2
 - b. Does the unit possess the external SOP from its supporting SSA? Ref: DA PAM 710-2-2, Para 5-2 b
 - c. Does the unit have required Publications on hand and up to date? Ref: AR 710-2, Appendix A, DA PAM 25-33, Chapter 3
 - d. Are files manage under The Army Records Information Management System (ARIMS)? Ref: AR 25-400-2
 - e. Does the unit have an informal memorandum, from the PBO which assigns Class IX document number sequence? Ref: DA PAM 710-2-1, Para 2-23b
 - f. Are assumption of command orders available and has a copy been forward to each SSA from which supplies are drawn? Ref: DA PAM 710-2-2, Para 23-27A
 - g. Is a DA Form 1687 signature card or a DA Form 5977 used to designate personnel as authorized to request and or receive supplies? Ref: DA PAM 710-2-1, Para 2-32 g, DA PAM 710-2-2, Para 23-27 a,b,
 - h. Are backup database being made daily on an external drive, are they kept on file and marked properly? Ref: DA Pam 25-403, Appendix B-3,13(b) (c); SAMS-1E EUM, section 11.4.1, SAMS-1E Leaders Guide section 7.8
 - i. Is the proper priority designator (PD) being used for all supply requests? Ref: AR 700-138, Para 2-7 e, DA PAM 710-2-1, Para 2-2, Para 2-3(2)
 - j. Does the unit capture the demands for repair parts which have been obtained from other sources (local purchase, purchase card buys, cannibalization, controlled substitution, DRMO withdrawals)? Ref: AR 710-2, Para 2-6, 1 (3)
 - k. Is the Demand Analysis Report generated quarterly and recommendations approved by the commander or designated representative? Ref: AR 710-2, Para 2-23 c, d, SAMS-1E EUM Section 8.14.1

(2) Are service packets maintained (DA Form 2404/5988-E) and complete IAW DA PAM 750-8, Chap 3, Para 3-10d (2)?

(3) Are operators trained and licensed on assigned equipment? Ref: AR 600-55, Para 1-4, h. (2)

(4) Are required publications, with changes posted, on hand or on valid requisition? Changes will be posted as specified IAW DA PAM 25-30 & 25-40, Appendix E

g. Smoke Generators.

(1) Are all smoke generators clean, serviceable, complete, IAW applicable TM and have shortages on valid requisition, and properly sub-hand receipted to the user? Ref: AR 710-2, Para 2-10h, DA PAM 710-2-1, Para 2-1

(2) Are service packets maintained (DA Form 2404/5988E) and complete IAW DA PAM 750-8, Chap 3, Para 3-10d (2)?

(3) Are operators trained and licensed on assigned equipment? AR 600-55, Para 1-4, h. (2)

(4) Are required publications, with changes posted, on hand or on valid requisition? Changes will be posted as specified IAW DA PAM 25-30 & 25-40, Appendix E.

h. Sanators.

(1) Are sanators clean, serviceable, complete IAW applicable TM's and properly sub-hand receipted to user? Are all shortages on valid requisition? Ref: AR 710-2, Para 2-10h, DA PAM 710-2-1, Para 2-1

(2) Are sanators services properly performed and scheduled IAW applicable TM,s and DA PAM 750-8, Chap 3?

(3) Are operators properly trained and licensed on assigned equipment? Ref: AR 600-55, Para 1-4, h. (2)

(4) Are required publications, with changes posted, on hand or on valid requisition? Changes will be posted as specified IAW DA PAM 25-30 & 25-40, Appendix E

i. Heaters

(1) Are heaters clean, serviceable and complete IAW applicable TM's and properly receipted to the user? Are shortages on valid requisition? Ref: AR 710-2,Chap 2, Para 2-10h, DA PAM 710-2-1, Chap 2, Para 2-1

(2) Are heater services properly preformed and scheduled IAW applicable TM's and DA PAM 750-8, Chap 3?

(3) Are operators properly trained and licensed on assigned equipment? Ref: AR 600-55, Para 1-4, h. (2)

(4) Are required publications, with changes posted, on hand or on valid requisition? Changes will be posted as specified IAW DA PAM 25-30 & 25-40, Appendix E

j. Gators.

(1) Are gators being maintained IAW operators manual & are services being preformed? Ref: Applicable TM's, DA PAM 750-8, Chap 3

(2) Are Service packets maintained (DA Form 2404/5988E) and complete IAW DA PAM 750-8, Chap 3, Para 3-10 d2?

(3) Are operator familiar with safety procedures outlined in operator's manual?

(4) Are operators trained and licensed on assigned equipment? IAW AR 600-55, Para 1-4,h (2)

(5) Are gators marked?

k. Quadcon's, ISU 60 & 90

(1) Are storage areas clean, neat, serviceable and meet the physical security requirements IAW applicable TM's, and AR 190-51?

(2) Do storage areas have fuel and or any other explosive material stored in them? Ref: Check local Environmental policies and procedures

References:

AR 25-400-2
AR 190-51
AR 600-55
AR 710-2
AR 735-5
DA PAM 710-2-1
DA PAM 750-1
DA PAM 750-3
DA PAM 750-8
TB 43-0142
TB 43-0156
TB 750-25
CAM REG 750-1
TM 9-243
TM 9-2610-200-14
TM 9-4910-571-12&P, 34&P
TM 9-4940-568-10
TM 9-4910-783-13&P
TM 9-6115-642-10
TM 9-6115-642-24
TM 5-4120-386-14
TM 9-2330-328-14&P

b. Files, punches and sharp edged tools are dressed and covered.

c. Are hand tools clean and free of rust?

d. Multimeter leads serviceable.

(2) Are tools engraved correctly to avoid loss of accountability? Ref: AR 190-51, App C-4, IAW local SOP

(3) Are there any excess / unserviceable tools in the tool room? Ref: AR 735-5, Para 2-2e, DA PAM 710-2-1, Para 3-2, DA PAM 710-2-2, Para 14-2

(4) Are unserviceable tools being turned into the supply room? Ref: IAW local SOP, AR 735-5, DA PAM 710-2-1 Para 3-7

g. Forward Repair System (FRS)

(1) Are Preventive Maintenance Checks and Services (PMCS) being performed IAW TM 9-4940-568-10.

(2) Are schedule services Quarterly, Semi-Annual, Annual and Bi-Annually loaded in the Standard Army Management Information Systems (STAMIS) IAW TM 9-4940-568-23-1.

(3) Has the FRS Material Handling Crane (MHC) been Load Tested IAW TB 43-0142, Appendix A and does it have proper markings to include Load Rating and date of next periodic inspection IAW TB 43-0142, Para A-3 a(1)

(4) Has the current tool room custodian and Alt. been trained and licensed on the Forward Repair System (FRS) ground supporting equipment? REF: AR 600-55, Para 7-1

h. Standard Automotive Tool Set (SATS)

(1) Are Preventive Maintenance Checks and Services (PMCS) being performed on the SATS IAW, TM 9-4910-783-13&P, Generator Set, TM 9-6115-642-10, Air Conditioner (ECU), TM 5-4120-386-14 and Trailer, TM 9-2330-328-14&P

(2) Are schedule services for the SATS Generator, Semi-Annual, Annual and Bi-Annually IAW, TM 9-6115-642-24 loaded in the Standard Army Management Information Systems (STAMIS).

(3) Are semi-annual and annual services scheduled for the SATS Trailer (IAW, TM 9-2330-328-14&P) loaded in the Standard Army Management Information Systems (STAMIS)?

(4) Has the current tool room custodian and Alt. been trained and licensed on the Standard Automotive Tool Set (SATS) ground supporting equipment? REF: AR 600-55, Para 7-1

i. Product Manager Sets, Kits and Outfits Warranty Website

(1) Are tools under warranty by PM-SKOT that are damaged based on fair, wear and tear being replaced using the <http://pmskot.army.mil> site?

(3) Are required publications, with changes posted, on hand or on valid requisition? Changes will be posted as specified IAW DA PAM 25-30 & 25-40, Appendix E

4) Are all Quadcon's, ISU 60's & 90's properly sub-hand receipted to the user with all shortages on valid requisition? Ref: AR 710-2, Chap 2, Para 2-0h, DA PAM 710-2-1, Chap 2, Para 2-1

References:

a. AR 25-400-2, The Army Records Information Management System (ARIMS) (www.arims.army.mil)

b. AR 25-1, Army Knowledge Management and Information Technology

c. DA PAM 25-403, Guide to Record keeping in the Army

d. Army Records Information Management System (ARIMS) User Guide

Maintenance Management (Unit Armorer Small Arms)

1. Task: Evaluate unit weapons and maintenance programs for compliance with 10/20 PMCS standards as prescribed by AR 750-1

2. Conditions: Given the MTOE, equipment, personnel, applicable records and required publications the evaluator will assess the compliance to 10/20 standards of the weapons systems in unit.

3. Standards:

a. Administration.

(1) Does the unit have a current weapons maintenance Standing Operating Procedure (SOP) signed by current Commander? Ref: AR 750-1, Para 3-7, b, DA PAM 750-3, Para 2-2

(2) Does unit have a current external SOP approved by the Commander on hand? Ref: AR 750-1, Para 3-7, b, DA PAM 750-3, Para 2-2

(3) Has the commander designated personnel in the Arms Room to turn-in and pick up job requests at the FSC on a DA Form 1687 signature card? Ref: DA PAM 710-2-1, Para 2-32b

(4) Does the Arms Room utilize the ARIMS filing system to manage files? Ref: AR 25-400-2, Para 1-6(a). <https://www.arims.army.mil>

(5) Does the unit have current hardcopy -10's for each piece of equipment on hand, if not are they on order? Ref: AR 25-30, Para 3-19 (9).

(6) Are weapons checked for application of current modification work orders (MWO's) and safety of use messages (SOUW's)? <https://www.mmis.army.mil> Ref: DA PAM 750-3, Para 2-3 e and SOP

(7) Is the armorer receiving TACOM Field Alerts, Ground Precautionary Messages, Maintenance Action/Info, Safety Advisory/Alert Messages, Safety of use Messages, Weapon Information Notices, and Malfunction Accident Incident Reports (MAIR)? <https://tulsa.tacom.army.mil>; Ref: DA PAM 750-3, Para 2-3 e and SOP

b. Maintenance Forms.

(1) Does the unit have DA Form 5988-E's on hand for operators to conduct -10 level PMCS's? Ref: DA PAM 750-8, Para 3-10 b (4)

(2) Are DA Form 5988-E's being utilized to conduct operator level Before, During and After PMCS's on weapons? Ref: DA PAM 750-8, Para 3-10 b (4)

(3) Does the armorer maintain the receipt copy of DA Form 2407-E (Maintenance Request) for equipment turned in to support Maintenance? Ref: DA PAM 750-8, Para 3-14 d. (1)

(4) Are completed maintenance requests DA Form 2407-E's and supporting DA Form 5988-E's kept on file for 90 days after repairs are conducted? Ref: DA PAM 750-8, Para 3-14 d (4) a.

(6) Are tool locator files established, accurate and used? Ref: DA PAM 710-2-1, Para 6-3b2

(7) If a card file is used for issuing of tools for one day or less, are the following minimum requirements being met? Ref: DA PAM 710-2-1, Para 6-3b (2) (a)

a. One card for each individual SKO or special tool (i.e. HMMWV / FMTV special Tools) in the tool room and one card for each individual tool authorized in the SKOs or TM's? Ref: DA PAM 710-2-1, Para 6-3 b(2)(a)

b. Does every card have, at a minimum, the following information: NSN, tool nomenclature and LIN of the SKO, or TM to which the tool belongs? Ref: DA PAM 710-2-1, Para 6-3b (2)(a)

c. Are all log file card entries in ink? Ref: DA PAM 710-2-1, Para 6-3

d. Is the rest of the card used to record dates of issue, signatures of the individuals receiving the tool, and initials of the tool room custodian upon each return of the tools? Ref: DA PAM 710-2-1, Para 6-3

e. Are the cards filed in NSN, NIIN, or Nomenclature sequence? Ref: DA PAM 710-2-1, Para 6-3 b (2)(b)

f. When a tool is issued, is the card filed in a separate suspense file? Ref: DA PAM 710-2-1, Para 6-3 b (2)(a)

g. Are separate card files used for each SKO, or special tools? Ref: DA PAM 710-2-1, Para 6-3b (2)(a)

h. When a tool is issued for more than one day on a temporary hand receipt (DA Form 3161), is the second copy filed with the card for the issued tool, and is there a separate file for tools issued for more than one day? Ref: DA PAM 710-2-1, Para 6-3 b (2)(a)

i. Are lost, damaged and excess tools tagged appropriately? Ref: DA PAM 710-2-1, Para 6-3b (2)(a)

f. TMDE:

(1) Are tools that require calibration currently calibrated and do they have a Label 80, DA Label 163, or DA Form 2417 affixed to it? Ref: TB 750-25, Para 2-5

(2) Does all TMDE equipment which requires PMCS/inspections have a valid DA Form 5988-E? Ref: TM'S, Commercial Manual's, AR 750-1 para 3-9a, TB 750-25 para 3-10 b (11).

(3) Are torque wrenches and AN/PSM95, Maintenance Support Device (MSD) signed out and used? Ref: DA PAM 750-3, Para 3-6

g. Care and Maintenance of tools:

(1) Are tools being Maintained IAW TM 9-243?

a. Grease guns, drip pans, funnels etc., are clean.

(1) Are component hand receipts prepared and signed when the issue is made directly to the using individual? Ref: AR 710-2, Para 2-10h & Appendix F

(2) Has the tool room been inventoried at least semi-annually and has the unit commander completed a memorandum for record listing the results of the inventory? DA PAM 710-2-1, Para 9-5 and DA PAM 750-1, 6-5

(3) Are SKO's stored separately and not mixed with other SKO's or special tools? Ref: DA PAM 710-2-1, Para 6-3a.

d. Safety:

(1) Are all lifting devices load tested and stenciled with the next inspection due date and load rating? Ref: TB 43-0142, Para 6 f (3)

(2) Are all lifting devices being inspected at least annually? Ref: TB 43-0142, Para 4b, Para 6e, and Applicable Appendix, Para b(2)

(3) Do 5 and 7 ton Vehicle Support Stands have a daily inspection Preventive Maintenance Checks and Services (PMCS) before use and are they inspected semi-annually on periodic basis? Ref: TB 43-0156, Para 6c.(3)(4), Para 8, PMCS Table, Page 6 and IAW Maintenance Advisory Message 05-035.

(4) Are all vehicle support stands loaded into the automated Standard Army Management Information Systems (STAMIS) and added to the service schedule with an interval of 'S' (semi-annual). Ref: TB 43-0156, Para 6c.(3)

(5) Do Local purchased commercial stands have a qualified load test either from the manufacturer or a testing facility. Certificate of Conformance (COC) with the load testing certificate required for locally purchased stands will be maintained by the unit. Ref: TB 43-0156, Para 7,b.

(6) Does each vehicle support stand have a product and safety markings developed by the manufacturer or supplier. Ref: TB 43-0156, Para 8 PMCS Table, Page 6, APPENDIX B, a. & b.

e. Tool sign-out/sign-in procedures:

(1) Does the custodian issue and control tools using a DA Form 5519-R, 5x8 card issue file or Locally Produced Form IAW DA PAM 710-2-1, Para 6-3b (1)? Ref: DA PAM 710-2-1, Para 6-3b (2)

(2) Are tools issued for more than 24 hours, but less than 31 days, issued using a temporary hand receipt (DA Form 3161)? Ref: DA PAM 710-2-1, Para 6-3c

(3) Are tools issued for 31 days or more issued using a permanent hand receipt (DA Form 2062)? Ref: DA PAM 710-2-1, Para 6-3d

(4) Does the custodian ensure all tools issued for one day or less are returned at the end of each working day? Ref: DA PAM 710-2-1, Para 6-3b(1)

(5) Are tool sign out logs, temporary hand receipts or DA Form 5519-R for each day destroyed once all tools have been returned? Ref: DA PAM 710-2-1, Para 6-3b (1)(2)

c. Scheduled Services.

(1) Is the SAMS-1E Scheduled Service Report used to manage weapons quarterly services? Ref: DA PAM 750-8, Para 3-21 b, Weapon TM's 23&P

(2) Are completed DA Form 5988-E's being kept on file for all weapons requiring Quarterly Services until completion of the next Quarterly Service? Ref: DA PAM 750-8, Para 2-4 e., Para 3-10 f (D) 3

(3) Is the SAMS-1E Scheduled Service Report used to manage weapons Gauging / Serviceability Test? Ref: DA PAM 750-8, Para 3-21 b, Weapon TM's 23&P

(4) Are the DA Form 2407-E's with appended work sheet (DA Form 5988-E) being kept on file for all weapons requiring gauging until completion of the next gauging? Ref: DA PAM 750-8, Para 3-13 1a, Para 3-14 b.1, Para 2-4 e., Para 3-10 f (D) 3

d. Weapons Maintenance. (10% of all like items may be inspected) See Attached DA Form 2404.

(1) Are blank firing attachments (BFA) serviceable and on hand for each weapon requiring one for training? Ref: AR 750-1, Para 3-2 d., TMs

(2) Are complete cleaning kits as prescribed in the -10 manuals available for each weapon? Ref: AR 750-1, Para 3-2 b (8) , TM-10

(3) Are T&E Mechanisms present, serviceable and functionally checked? (Mount TMs) Ref: AR 750-1, Para 3-2 b (8)

(4) Are MG mounts and components serviced with supported weapons systems? Ref: AR 750-1, Para 3-2 b.

(5) Are seven magazines per individual weapon on hand? Ref: AR 750-1, Para 3-2 b. (8), MTOE and SOP

(6) Are bayonets receiving quarterly services as required in TM 9-1005-237-23&P? Ref: AR 750-1, Para 3-2 b (3)

(7) Are optics/lasers serviced with supported weapons systems? Ref: AR 750-1, Para 3-2 b (8)

(8) Are borelight/boresights/gauges (AN/PEM-1, M30 and M-2 go/no go) being turned in for calibration and have a current/unexpired and legible DA Label 80? Ref: TB 43-180, pg. I-69 and I-533 of 674

(9) Are machine gun barrels tagged with receiver serial number of weapon it is gauged to? Ref: Weapons TM's, G4 Policy Letter Dated 12 February 2007

(10) Is the armorer sub-hand receipted for all AA&E and sensitive items stored in the arms room from the unit CDR? Ref: Check local Installation Policies or SOPs

(11) Is BII and CEOI for weapons present and serviceable? If not, is it on valid requisition and shortage annex? Ref: DA PAM 710-2-1, Para 6-1

(12) Has the tool box been inspected for accountability, serviceability and cleanliness? Ref: TM 9-243, Chap 2

(13) Is a copy of the tool kit component hand receipt reflecting current inventory in the tool kit? Ref: DA PAM 710-2-1, Para 6-2, TM 9-243, Page 2-2, Change 3

(14) Are the Special tools required by the weapon's TMs present and accounted for on hand receipt? Ref: AR 750-1, Para 3-2 b (4) DA PAM 710-2-1, Para 6-2, DA PAM 750-3, Para 3-8

e. Mortar Tubes

(1) Is there a WEAPON RECORD DATA, DA Form 2408-4 established for each weapon requiring one? Ref: DA PAM 750-3 Para 3-2 e. (1), DA PAM 750-8, Para 5-3

(2) Are personnel designated in writing by the unit commander to make entries in electronic medium on TULSA gun card online and on the weapon record data DA Form 2408-4's? Ref: DA PAM 750-8, Para 5-3 h

(3) Is required service information entered in the TULSA Gun Card online data base and on the DA Form 2408-4s correctly? Ref: DA PAM 750-8, Para 5-3, Figs 5-1, 5-2, 5-3 and 5-4?

(4) Are Bore scope and Pullover readings for Mortar entered in TULSA gun card data base and on Weapon Record Data, DA Form 2408-4? Ref: DA PAM 750-8 Para 5-3 e, TM 9-1000-202-14

References:

AR 25-30, Consolidated Index of Army Publications and Blank Forms
AR 25-400-2, The Army Records Information Management System (ARIMS)
AR 710-2, Supply Policy Below the Wholesale Level
AR 750-1, Army Materiel Maintenance Policies
DA PAM 25-403, Guide to Records keeping in the Army
DA PAM 710-2-1, Using Unit Supply System
DA PAM 750-1, Commander's Maintenance Handbook
DA Pam 750-3, Soldiers' Guide, For Field Maintenance Operations
DA PAM 750-8, The Army Maintenance Management System (TAMMS) User's Manual
TB 43-180, Calibration and Repair Requirements For The Maintenance of Army Material
TM 9-243, Use & Care of Hand Tools and Measuring Tools
TM 9-1000-202-14, Evaluation of Cannon Tubes
TM 9-1005-237-23&P, Bayonet-Knife
Technical Bulletins, Technical Manuals, Safety of use messages applicable to assigned weapons DA PAM 25-30

Maintenance Management (Artillery, Fire Control)

MAINTENANCE MANAGEMENT (TOOL ROOM)

1. TASK: Evaluate Unit Tool Room Operations IAW Unit SOP and listed references.

3. Condition: Given an SKO (Sets, Kits and Outfits), references, and a unit maintenance area; the unit must comply with the published guidance for overall effectiveness.

4. Standards:

a. Responsibility:

(1) Does the unit have a current Tool Room SOP for tool accountability and control procedures? Ref: DA PAM 750-3 Chapter 2.

(2) Has the commander appointed a Tool Room Custodian on orders? Ref: DA PAM 710-2-1, Para 6-3a

(3) Are special tools, sets, kits and outfits, not issued to using individuals, stored in and issued from the tool room? Ref: DA Pam 710-2-1, Para 5-1c (3), 6-3a

(4) Are all special tools, sets, kits and outfits not stored in the Tool Room secured IAW AR 190-51, Para 3-22c and issued from the Tool Room?

(5) Are all SKO's and special tools in the tool room sub hand receipted to the tool room custodian? Ref: AR 710-2, Para 2-10h, Para 2-10j, DA PAM 710-2-1, Para 5-3b, 6-2b,e, DA PAM 750-3, Para 3-6

(6) Are all tools and equipment including special tools, TMDE and equipment local purchased captured on hand receipts down to the user level? Ref: AR 710-2, Para 1-12b, 2-10h, AR 735-5, Para 2-2, d (3), Para 7-7b (1)(2), DA PAM 710-2-1, Para 5-3b, 6-2 d, e.

b. Security:

(1) Are tool room keys secured and controlled using a key control register / access roster? Ref: AR 190-51, Para 3-22e, f and Annex D-7a (3), DA PAM 710-2-1, Para 6-3a

(2) Is a tool room access roster completed by the responsible officer and available to the Tool Room custodian? Ref: DA PAM 710-2-1, Para 6-3a

(3) Does the custodian accompany visitors into the tool room? Ref: DA PAM 710-2-1, Para 6-3a

(4) Has the responsible officer provided a list of personnel authorized to sign for tools from the tool room? Ref: DA PAM 710-2-1, Para 6-3a

(5) Does the tool room custodian confirm the identity of personnel requesting tools by checking identification cards of unfamiliar personnel? Ref: DA PAM 710-2-1, Para 6-3a,

c. Inventories:

(1). Does the unit being inspected have the following (TMSS) on hand. PU-821/T, PU-822A/T, PU-823A/T, and PU-822A/T Ref: ALARACT 330/2012

(2) Are all required pieces of equipment/and or components to be sampled, properly enrolled in AOAP? Ref: AR 750-1, Para 8-2 a(1), DA PAM 750-8, Para 4-2 f, ALARACT 330/2012

(3) Are operators and mechanics trained in the proper procedures for sampling equipment? Ref: TB 43-0211, Para 2-4

References:

AR 25-400-2

AR 750-1

DA PAM 750-8

DA PAM 750-3

TB 43-0211

AOAP External SOP

ALARACT 330/2012 - Enrollment of the Medium and Large Trailer Mounted Support System (TMSS) Generators Powering The Deployable

1. Task: Evaluate unit weapons maintenance management and component accountability program for compliance with the 10/20 PMCS standards prescribed in AR 750-1 and AR 710-2

2. Conditions: Given MTOE/TDA equipment, personnel, applicable records and required publications in Para 1, the evaluator will assess the compliance to 10/20 standards of the weapons systems and components within the unit.

3. Standards:

a. Howitzers:

(1) Are required publications, with changes, on hand or on valid requisition? Ref: AR 750-1, Para 3-2, DA PAM 750-3, Para 3-4

(2) Are howitzers free of deficiencies as specified in the applicable PMCS tables in technical manuals? Ref: AR 750-1, Para 3-2, TM 9-1015-252-10&20P, TM 9-1025-211-10&20P

(3) Is Fire control equipment installed and free of deficiencies as specified in the applicable technical manuals? Ref: -10/20 PMCS standards ?

(4) Are the weapons record DA Form 2408-4s properly prepared and maintained with the gun? Ref: DA PAM 750-8, Para 5-3, TM 9-1000-202-14, FN 750-8f

(5) Are personnel trained in the use of TULSA for electronic entry of weapons record data information? Ref: DA PAM 750-8, Para 5-3

(6) Does the commander have personnel designated in writing to validate or make entries in the TULSA electronic gun card and on the weapon record data, DA Form 2408-4s? Ref: DA PAM 750-8, Para 5-3/5-4, Figure 5-1 thru 5-4

(7) Are required services and borescoping performed within the prescribed variance and validated on the weapon record data DA Form 2408-4? Ref: DA PAM 750-8, Para 3-9, TM 9-1000-201-14 and TM 9-1015-252-10&20P, FN 750-8d

(8) Are copies of the last service packet (DA Form 5988Es / 2404s) maintained on file until completion of the next like service? Ref: DA PAM 750-8, Para 3-10.

(9) Are scheduled services entered in SAMS-1E reflected on a service schedule printout? Ref: AR 750-1, Para 3-2, DA PAM 750-8, Para 3-10, FN750-8d

(10) Are completed maintenance requests DA Form 2407/2407-E SAMS-1E unit copy with appended worksheets retained on file for 90 days after the equipment is repair or replaced? Ref: DA PAM 750-8, Para 3-14 d

(11) Are completed maintenance requests DA Form 2407/2407-E (SAMS-1E unit support copy) with appended worksheets retained on file for 1 year after the equipment is repaired or replaced? Ref: DA PAM 750-8, Para 3-14 d

b. Artillery Tool Kit / Special Tools:

- (1) Are tools and equipment being maintained IAW TM 9-243, &/or applicable TM PMCS?
- (2) Are required special tools on hand or on valid request? Ref: AR 710-2, TM 9-1015-252-10&20P, TM 9-1025-211-10&20P
- (3) Are all tools inventoried and accounted for on Hand Receipt issued to the user? Ref: SC 5180-95-A12, TM-10-HR, TM -20 Special tools list.
- (4) Are hand receipts being reconciled every 6 months with the unit supply/primary hand receipt holder? Ref: AR 710-2, Para 2-10
- (5) Is a copy of the user hand receipt maintained by the user in a file or with the tools / equipment? Ref: DA PAM 710-2-1, Para 6-2 e.

References:

- AR 750-1, Army Materiel Maintenance Policies
- DA Pam 750-1, Commanders' Maintenance Handbook
- AR 710-2, Supply Policy Below Wholesale Level
- DA PAM 710-2-1, Using Unit Supply System
- DA PAM 750-3, Soldiers' Guide for Field Maintenance Operations
- DA PAM 750-8, The Army Maintenance Management System (TAMMS) User's Manual
- TM 9-1005-202-14, Evaluation Of Cannon Tubes
- SC 5180-95-A12, Tool Kit, Art, & TT Mech.
- TM 9-1015-252-10-HR and -20&P
- TM 9-1025-211-10-HR and -20&P

Maintenance Management (NVD's)

MAINTENANCE MANAGEMENT (AOAP)

1. Task: Evaluate the units AOAP program standards IAW standards of the Army Oil Analysis Program.
2. Conditions: Given the AOAP program, references, and a unit maintenance area, the unit will comply with published guidance for overall effectiveness.
3. Standards:
 - a. Miscellaneous.
 - (1) Does the unit have a current AOAP SOP?
Ref: DA PAM 750-3, Chapter 2
 - (2) Has the commander appointed a monitor to control the program? Ref: DA PAM 750-8, Para 4-3, Para 4d(1), TB 43-0211 Para 2-2c
 - (3) Is the monitor certified by the AOAP lab or the installation monitor?
 - (4) Are all required pieces of equipment/and or components to be sampled, properly enrolled in AOAP? Ref: AR 750-1, Para 8-2 a(1), DA PAM 750-8, Para 4-2 f, TB 43-0211 Appendix B
 - (5) Are operators and mechanics trained in the proper procedures for sampling equipment?
Ref: TB 43-0211, Para 2-4
 - (6) Upon Receipt of a DA Form 3254-R issued by the AOAP laboratory, is the unit providing maintenance feed back to the AOAP laboratory within 24 hours of unidentified inspections finding and maintenance action taken? Ref: AR 750-1, Para 8-2 d(2), DA PAM 750-8, Para 4-6
 - (7) Are the last two monthly AOAP printouts from the AOAP lab on hand? Ref: TB 43-0211 Para 2-9f
 - (8) Is the most recent processed oil analysis request filed for each component? Ref: DA PAM 750-8, Para 4-5, TB 43-0211, Section XII,12-12
 - (9) Are all samples submitted on DA Form 5991-E controlled by the (SAMS-1E)? Ref: DA PAM 750-8, Para 4-5
 - (10) Are adequate sampling supplies on hand to sustain sampling intervals (90 days)? Ref: DA PAM 750-8, Para 4-6, TB 43-0211 Para 2-4b, Section IV
 - (11) Are their any delinquent AOAP samples? Ref: TB 43-0211, Para 2-3b
 - (12) Are files managed under The Army Records Information Management System (ARIMS)?
Ref: AR 25-400-2
4. ALARACT 330/2012 - Enrollment of the Medium and Large Trailer Mounted Support System (TMSS) Generators Powering The Deployable

5. TMDE Readiness:

- a. Do the equipment quantities for DA Reportable TMDE equipment in the SAMS-1E box match the on hand QTY listed on the unit Property Book? Ref: AR 220-1, Para 1-6, 6-1, 6-5, AR 700-138, Para 1-19, DA PAM 750-1, Para 4-9, (Hand Receipt scrub) MMDF
- b. Is all DA Reportable TMDE equipment on hand, or on hand any time during the reporting period being reported through AMSS? Ref:AR 700-138, Para 2-6, 2-7, and 6-2
- c. Do unit authorizations reflect authorized and required qty by MTOE and does on hand match property book and equipment loaded in the SAMS-1E.?SAMS E END USER MANUAL (EUM)
- d. Does the Commander monitor the current unit TMDE readiness and delinquency rates? Ref: AR 750-1, AR 750-43, TMDE Support Agency (s) external SOP
- e. Has all TMDE been identified to the supporting activity? Ref: AR 750-43, Para 2-10 f, TB 750-25, Para 3-10b

References:

AR 25-30
AR 25-400-2
AR 385-10
AR 700-138
AR 710-2
AR 725-50
AR 750-1
AR 750-43
DA Pam 700-2-1
DA Pam 710-21-1
DA Pam 750-3
DA Pam 750-8
DA Pam 750-43
FM 4-30.3
TB 9-6665-285-24
TB 43-180
TB 750-25
Unit Maintenance SOP
TMDE Support Agency (s) External SOP
SAMS E END USER MANUAL (EUM)

- 1. Task: Evaluate night vision devices maintenance programs for compliance with 10/20 PMCS standards as prescribed by AR 750-1.
- 2. Conditions: Given the MTOE/TDA and the references given in Para 1, above. In a Battalion or Company area, Evaluator will access the compliance to publications guidance and effectiveness of the unit NVG's Preventive Maintenance Program.
- 3. Standards:
 - a. Does the unit have a current SOP that covers the duties and responsibilities for the NVG Custodian approved by the commander on hand? Ref: AR 750-1, Para 3-7, DA PAM 750-3, Chapter 2
 - b. Does unit have a current external SOP for NVG Maintenance approved by the Commander on hand? Ref: AR 750-1, Para 3-7, b, DA PAM 750-3, Para 2-2
 - c. Does the unit have current hardcopy -10's for each piece of equipment on hand, if not are they on order? Ref: AR 25-30, Para 3-19 (9).
 - d. Has the commander designated personnel to turn-in and pick-up job request for NVG repairs with the FSC on a DA Form 1687 signature card? Ref: DA PAM 710-2-1, Para 2-32b.
 - e. Does the unit have DA Form 5988-E's on hand for operators to conduct -10 level PMCS's? Ref: DA PAM 750-8, Para 3-10 b (4)
 - f. Are DA Form 5988-E's being utilized to conduct operator level Before, During and After PMCS's on night vision devices (Has PMCS been conducted on each piece of equipment)? Ref: DA PAM 750-8, Para 3-10 b (4)
 - g. Are SAMS-1E generated 2407-E's with appended work sheet (5988-E) being kept on file for 90 days after repair for Night Vision Devices ? Ref: DA PAM 750-8, Para 3-13, Para 3-14, AR 25-400-2
 - h. Are SAMS-1E generated 2407-E's with appended work sheet (5988-E) being kept on file until next Purging and Resolution Test for Night Vision Devices? Ref: DA PAM 750-8, Para 3-13, Para 3-14, AR 25-400-2
 - i. Are Resolution Tests and Purging being preformed at Field Level every 180 days, and maintained until next like service? Ref: Application TM's and DA PAM 750-8
 - j. Is the Test Set (TS-4348) being calibrated and have a current/unexpired and legible DA Label 80? Ref: TB 43-180 pg. I-654 of 674
 - k. Is the Test Set (TS-4348) complete with serviceable BII, accessories, and current operators manual? Ref: AR 750-1, Para 3-2(8), DA PAM 750-3, Para 3-8
 - l. Is the SAMS-1E Scheduled Service Report used to manage Night Vision Devices Services? Ref: DA PAM 750-8, Para 3-2

m. Equipment inspected must be Fully Mission Capable (FMC) IAW the Preventive Maintenance Checks and Services (PMCS) standards in the application technical manual. If a "Not Ready/ Available" deficiency does exist, it must be reported IAW AR 750-1, AR 700-138, DA PAM 750-8.

n. Are NVD's listed as reportable in Table B-1 being reported on the AMSS report when they are NMC? Ref: AR 700-138, Chap 2 and MMDF.

Reportable Night Vision Devices:

Night Vision Sight (Crew) NT VIS ST TVS5

Night Vision Sight (Crew) NT VIS ST PVS-4

Aviators Night Vision Imaging System ANVIS AVS6V1

Aviators Night Vision Imaging System ANVIS AVS6V2

Aviators Night Vision Imaging System ANVIS AVS6V3

Sight Thermal LGT, MED, and HVY PAS-13's

PAS-13BV1	5855	014643150
PAS-13DV1	5855	015244308
PAS-13CV1	5855	015237707
PAS-13V2	5855	013836558
PAS-13DV2	5855	015244313
PAS-13CV2	5855	015237713
PAS-13BV2	5855	014643152
PAS-13AV2	5855	014580210
PAS-13V3	5855	013836544
PAS-13AV3	5855	014580211
PAS-13BV3	5855	014643151
PAS-13CV3	5855	015237715
PAS-13DV3	5855	015244314

Sight NV Sniperscope AN/PVS-10

References:

AR 25-30, The Army Publishing Program.
 AR 25-400-2, The Army Records Information Management System (ARMIS).
 AR 700-138, Army Logistics Readiness and Sustainability
 AR 710-2, Supply Policy Below the Wholesale Level
 AR 750-1, Army Materiel Maintenance Policy
 DA PAM 750-1, Commanders' Maintenance Handbook
 DA PAM 750-3, Soldiers' Guide For Field Maintenance Operations
 DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual
 TB 43-180, Calibration and Repair Requirements For The Maintenance of Army Material

k. Are quarterly master lists, monthly projected lists and monthly delinquent lists being maintained on file IAW AR 25-400-2? Ref: AR 25-400-2, TMDE Support Agency (s) external SOP

l. Have TMDE support coordinator(s) attended the TMDE support coordinator course and have a file copy of the certificate of training on hand? Ref: TB 750-25, Para 3-9, TMDE Support Agency (s) external SOP

m. Is organizational maintenance and PMCS on TMDE scheduled, performed and documented IAW 10/20 Technical Manuals or commercial manual equivalent? Ref: AR 750-1, Para 3-9e, TB 750-25, Para 3-10 b (11), Unit SOP, TMDE Support Agency (s) external SOP

n. Does each item of TMDE available for use have a current/unexpired and legible DA Label 80 or DA Label 163 and correctly annotated? Ref: TB 750-25, Para 3-10 b (12)

o. Has TMDE DESIGNATED AS "LIMITED USE" (Yellow DA Label 163) been authenticated in Block 8 of the label by the immediate supervisor of the section using the item? Ref: TB 750-25, Para 2-9, Para 3-10 b(18), Appendix C-5 b (1)(d)

p. Is each item of TMDE complete with serviceable BII, accessories, and current military or commercial (as applicable) operator manuals? Ref: AR 750-1, Para 3-2 b(8)

q. Are missing or unserviceable BII, accessories, and incomplete/obsolete operator manuals identified, documented, and currently on order? Ref: AR 750-1, Para 3-2 b(8) AR 710-2, DA PAM 750-3.

4. Calibrate Before Use (CBU):

a. Is -10/-20 TM PMCS, unit level maintenance, and an operational check performed and documented on TMDE before it is placed in CBU status (administrative storage)? Ref: AR 750-1, Para 8-11, TB 750-25, Para 3-10 b(25)

b. Is a DA Label 80 with (CBU) overprint and authenticated by the Division / Installation TMDE Support Coordinators (or designated alternate) affixed to each CBU item? Ref: TB 750-25, Para 3-10 b(26), Appendix C-7c

c. Has the local TMDE support activity been notified of the status change to CBU? Ref: TB 750-25, Para 3-10 b(25)

d. Is the administrative storage CBU area segregated from the work area and is access controlled to this storage area? Ref: AR 750-1, Para 8-11, TB 750-25, Para 2-7a

e. Is there an accurate and complete list of TMDE currently in CBU status posted within this storage area? Ref: TB 750-25, Para 2-7, Para 3-10a(10)

f. Is CBU TMDE that is withdrawn from administrative storage submitted for calibration prior to use? Ref: AR 750-1, TB 750-25, Para 3-10 b(28), TMDE Support Agency (s) External SOP, Unit Maintenance SOP

Maintenance Management (TMDE)

1. Task: Evaluate unit Calibration Program.
2. Condition: Given unit requirements from the references in Para 1, and a unit maintenance area, the unit must comply with the published guidance for overall effectiveness.
3. Standard: 100% of on-hand TMDE is listed on the Instrument Master Record File (IMRF) Master List. TMDE is with in prescribed readiness standards (readiness, delinquency, awaiting pick-up) 100% of PMCS is performed in accordance with -10/-20 Technical Manual Maintains Allocation Charts (MACs) 100% of TMDE in administrative storage properly identified and reported. TMDE customer account documentation is accurate, complete, and up-to-date.
 - a. Are referenced publications on hand or valid request? Ref: AR 25-30, DA PAM 750-3, Chapter 2
 - b. Has a primary TMDE coordinator been appointed on orders to serve as the central POC between the unit and the TMDE support Activity (TSA)? Ref: AR 750-1, AR 750-43 Para 6-4, TB 750-25, Para 3-10 , TMDE Support Agency (s) External SOP
 - c. Is there a signature card on file for turn-in and pick-up of required equipment for calibration? Ref: DA PAM 710-2-1 Para 2-28, TMDE Support Agency (s) external SOP
 - d. Are all high priority (01-10) calibration/maintenance requests approved/validated by either the commander or his/her designated representative? Ref: AR 725-50, DA PAM 710-2-1
 - e. Does the unit have a current maintenance SOP addressing TMDE support coordinators duties, responsibilities, proper calibration and repair procedures of TMDE equipment? Does the SOP address the proper handling, identification, monitoring, use, storage, transportation (no POV's) and disposal of radioactive components? Ref; AR 40-14, AR 11-9, AR 750-1, DA PAM 750-3, Chapter 2, TB 9-6665-285-25, TB 725-25, Para 3-10 a(2), TMDE Support Agency (s) external SOP
 - f. Does the unit have a current External SOP? Ref; AR 40-14, AR 750-1, DA PAM 750-3, Chapter 2, TB 725-25, Para 3-10 a (3) TMDE Support Agency (s) external SOP
 - g. Are quarterly master lists being reviewed against the units MTOE, property book, hand receipts and TB 43-180 and does it reflect additions, changes, and deletions to ensure accuracy of the quarterly master list and is it properly annotated by the commander or designated representative? Ref: AR 710-2, AR 750-43, Para 2-10 f, DA PAM 750-3, TB 43-180, TB 750-25, Para 3-10b (1) (2), TMDE Support Agency (s) external SOP
 - h. Have the monthly projected and delinquent lists been reviewed and properly annotated by the TMDE coordinator? Ref: TB 750-25, Para 3-2b, TMDE Support Agency (s) external SOP
 - i. Are controls in place to monitor incoming TMDE and TMDE that has an expired DA Label 80 or DA Label 163? Ref: TB 750-25, Para 3-10
 - j. Are expired calibration labels marked void? Ref: TB 750-25, Appendix C-7, Fig.C-5

References Continued:

TM 11-5855-306-10, (AN/PVS-14)
TM 11-5855-213-10, (AN/PVS-4)
TM5855-214-10, (AN/TVS-5)
TM 11-5855-238-10, (AN/PVS-5A, B, C)
TM 11-5855-262-10-1, (AN/PVS-7A)
TM 11-5855-262-10-2, (AN/PVS-7B-7D)
TM 11-5855-299-12&P, (Test Set 4348/UV)
TM 11-5855-312-10, (PAS-13B)
TM 11-5855-316-10, (PAS-13C)
TM 11-5855-317-10, (PAS-13D)
TM 11-5855-301-12&P (PAQ-4B and C)
TM 11-5855-297-12&P (PAQ-4A)
TM 11-5855-261-12&P (PAQ-4)