

091-94E-2002
Perform Quality Assurance, Quality Control (QA/QC) Procedures on Electronic Equipment
Status: Approved

Security Classification: U - Unclassified

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

Destruction Notice: None

Foreign Disclosure: FD1 - This training product has been reviewed by the training developers in coordination with the 59TH OD BDE FORT GREGG-ADAMS, VA 23801 foreign disclosure officer. This training product can be used to instruct international military students from all approved countries without restrictions.

Conditions: You are in an Operational Environment (OE), you are tasked to Perform Quality Assurance, Quality Control (QA/QC) Procedures on Electronic Equipment. You are the NCO of the Radio section in an Electronic Maintenance or Avionics Shop. Your shop receives a piece of equipment with a suspected fault. You must perform a technical inspection of the equipment to classify the serviceability/reparability of the equipment prior to repair or turn-in. At your disposal you have the following items: Tool Kit, TK-105(*)A/G; and reference materials; DA Pam 750-8, The Army Maintenance Management System (TAMMS) User Manual; DA Form 5990-E, Maintenance Request (EGA); DA Form 5988-E, Equipment Maintenance and Inspection Worksheet (EGA); DA Form 2404, Equipment Inspection and Maintenance Worksheet; DA Form 2407, Maintenance Request; AR 750-1, Army Material Maintenance Policy; TB 750-90-58, Maintenance Expenditure Limits (MEL); Federal Supply Group 58, Federal; TB 43-0002-11, Maintenance Expenditure Limits; Federal Supply Groups 36, 38, 39, 45, 49 and Local Standard Operating Procedure (SOP).

Standards: Perform Quality Assurance, Quality Control (QA/QC) Procedures on Electronic Equipment in accordance with (IAW) ATP 4-33, Maintenance Operations. When the task is complete you will have Performed Quality Assurance, Quality Control (QA/QC) Procedures on Electronic Equipment to determine if the equipment is serviceable or repairable. Complete all maintenance forms and records in accordance with DA Pam 750-8, The Army Maintenance Management System (TAMMS) User Manual and all safety precautions were observed.

Special Conditions: None

Safety Risk: Low

MOPP 4:

Task Statements

Cue: Your shop receives a piece of radio/CCI equipment with a suspected fault. You must perform a technical inspection of the equipment to classify the serviceability/reparability of the equipment prior to repair or turn-in.

DANGER

None

WARNING

None

CAUTION

None

Remarks: None

Notes: None

Performance Steps

1. Obtain required tools, test equipment, and references.
2. Review operator PMCS for noted deficiencies.
3. Set up test equipment in accordance with maintenance manuals.
4. Perform technical inspection of equipment.
 - a. Verify PMCS according to equipment -10
 - b. Annotate on DA 2404 all faults found during the technical inspection that requires repair or replacement to restore equipment serviceability. DA PAM 750-8 Fig 3-32
 - c. Determine if maintenance required is the result of fair wear and tear.
 - d. Determine if required maintenance/parts exceed the predetermined Maintenance Expenditure Limit (MEL) for the equipment.
5. Complete technical inspection paperwork.
6. Complete appropriate blocks on maintenance request forms.
7. Notify supervisor upon completion of task.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the Soldier GO if all Performance Measures are passed. Score the Soldier a NO-GO if any Performance Measure is failed. If the Soldier fails any Performance Measure, show what was done wrong and how to do it correctly.

Evaluation Preparation: Ensure all equipment and specials tools are available before evaluation. All initial set-up and equipment conditions must be performed in accordance with appropriate references to successfully complete the task.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Obtained required tools, test equipment, and references.			
2. Reviewed operator PMCS for noted deficiencies.			
3. Set up test equipment in accordance with maintenance manuals.			
4. Performed technical inspection of equipment.			
5. Completed technical inspection paperwork.			
6. Completed appropriate blocks on maintenance request forms.			
7. Notified supervisor upon completion of task.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary	Source Information
	AR 380-40	SAFEGUARDING AND CONTROLLING COMMUNICATIONS SECURITY MATERIAL	Yes	No	
	ATP 4-33	Maintenance Operations	Yes	Yes	
	DA FORM 2404	EQUIPMENT INSPECTION AND MAINTENANCE WORKSHEET	Yes	No	
	DA FORM 2407	MAINTENANCE REQUEST	Yes	No	
	DA FORM 5988-E	EQUIPMENT MAINTENANCE AND INSPECTION WORKSHEET (EGA)	Yes	No	
	DA FORM 5990-E	Maintenance Request	Yes	No	
	DA PAM 25-35(C)	(O) Index of Communications Security (COMSEC) Publications (U)	Yes	No	
	PAM 750-8	The Army Maintenance Management System (TAMMS) Users Manual.	Yes	No	
	TB 380-41	Security: Procedures for Safeguarding, Accounting and Supply Control of COMSEC Material	Yes	No	
	TB 43-0002-11	MAINTENANCE EXPENDITURE LIMITS, FEDERAL SUPPLY GROUPS 36, 38, 39, 45,	Yes	No	
	TB 43-0002-32	MAINTENANCE EXPENDITURE LIMITS FOR FSC GROUP 61 (FSC CLASSES 6115,	Yes	No	
	TB 43-0002-36	MAINTENANCE EXPENDITURE LIMITS FOR FSC GROUP 66;FSC	Yes	No	
	TB 750-90-58	MAINTENANCE EXPENDITURE LIMITS (MEL): FEDERAL SUPPLY GROUP 58,	Yes	No	

TADSS : None

Equipment Items (LIN):

LIN	Name
W37388	Tool Kit Electronic Equipment: TK-105G
P40750	POWER SUPP PP-6224B/U
R36178	Radio Test Set: AN/GRM-122

Materiel Items (NSN) :

Step ID	NSN	LIN	Title	Qty
	5810-01-270-1566	FA1010	Mobile COMSEC Unit: MO-3(C)/G	1
	5280-01-417-5214		Receiver-Transmitter, Radio	1
	5815-00-069-8914		Radio Teletypewriter Set: AN/VSC-2	1
	5820-00-078-4766	FA205N	Receiver-Transmitter, Radio: RT-662/GRC	1
	5820-00-082-1283		Detector, Radio Frequency	1

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to the current Environmental Considerations manual and the current GTA Environmental-related Risk Assessment card. All operations must conform to the Army Environmental Program, TC 3-34.489 (The Soldier and the Environment), 3-34.5 (ENVIRONMENTAL CONSIDERATIONS {MCRP 4-11B}), AR 200-1 Environmental Protection and Enhancement), local, state, and federal environmental policies, The Clean Air Act (CAA), CAA amendments, National Ambient Air-Quality Standards (NAAQS), as well as OSHA Hazard Communication Standard for Industry, 29 CFR, part 1910.

Safety: In a training environment, leaders must perform a risk assessment in accordance with current Risk Management Doctrine. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW current CBRN doctrine. Incidental to Army operations and activities, all operations must provide for public safety, safe and healthful workplaces, procedures and equipment. Observe all safety precautions when using lifting devices and handling heavy parts. Observe all safety and/or environmental precautions regarding electricity, radiation, radio frequency (RD), fuel, lubricants, high pressures, and refrigerants. Provide ventilation for exhaust fumes during equipment operation and use hearing protection when required in accordance with AR 385-10 (The Army Safety Program), The Clean Air Act

Prerequisite Individual Tasks : None

Supporting Individual Tasks : None

Supported Individual Tasks : None

Supported Collective Tasks : None

Knowledges :

Knowledge ID	Knowledge Name
091-K-003	Understanding of Maintenance Documents
091-K-009	Understanding of Safety, Warnings, and Cautions Statements
091-K-0001	Knowledge of Basic Principles of Radio Frequency (RF) Signals
091-K-00004	Army Technical Publications
091-K-0003	Knowledge of proper technical inspection procedures
093-K-0005	Knowledge of basic direct current and low frequency calibration techniques
101-K-1280	Knowledge of purpose/use of DA 2404/5988-E, Equip Inspection/Maint Worksheet
101-K-1286	Knowledge of the purpose/use of DA Form 2407, Maintenance Request
091-K-0015	Knowledge of basic hand tools
113-K-10006	Familiarization with DS/GS levels of maintenance and ELM support
091-K-1001	How to read and interpret schematic diagrams
091-K-004	Understanding of Maintenance Forms
K8139	Understanding of Maintenance Procedures
091-K-007	Understanding of Safety Hazards

Skills :

Skill ID	Skill Name
S0470	Ability to identify safety hazards within work area
091-S-0060	Ability to conduct a Risk Assessment
091-S-0029	Ability to correct reported deficiencies identified during schedule and unscheduled inspections
S5245	Ability to use basic hand tools
091-S-0001	Ability to read and comprehend technical material
091-S-0002	Ability to read, interpret and perform instructions
091-S-0003	Ability to practice safety at all times
091-S-0004	Ability to properly operate the required equipment
091-S-0005	Ability to perform PMCS on equipment used
S0461	Ability to complete data elements on the required forms and documents.
091-S-0007	Ability to review all forms, documents, and records for completeness and accuracy
S460	Ability to research and retrieve online technical documents.
091-S-0010	Ability to perform logical, methodical troubleshooting techniques
091-S-0011	Ability to interpret block diagrams
091-S-0012	Ability to interpret electronic schematic diagrams
S0469	Ability to use DA Pam 25-30
091-S-0014	Ability to prepare a calibration correction chart or test report
091-S-0017	Ability to perform a technical inspection
S0467	Ability to identify required sections for a basic SOP

ICTL Data : None