



Australian Government

Assessment Requirements for MEM18057 Maintain/service analog/digital electronic equipment

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM18057B Maintain/service analog/digital electronic equipment

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria on at least two (2) occasions and include:

- following work instructions, standard operating procedures (SOPs) and safe work practices
- identifying and interpreting circuit diagrams, specifications, schematics, maintenance records, drawings, supplier catalogues and obtain relevant data with respect to maintaining/servicing analog/digital electronic equipment
- locating, reading/recording and diagnosing built-in fault indicators and obtaining error code interpretation documents and running test functions and recording faults and/or equipment status indicated by built-in functions/display
- checking electronic equipment/sub-assemblies and components using appropriate test equipment for compliance with specifications
- removing and replacing components from the electronic equipment
- maintaining and/or servicing electronic equipment by isolating sub-assembly from power supply and adjusting/tuning and calibrating in accordance with specifications and verifying for operational compliance
- returning the repaired/serviced electronic equipment to service
- recording all test results in accordance with SOPs.

Knowledge Evidence

Evidence required to demonstrate the required knowledge for this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include knowledge of:

- safe work practices and procedures and use of personal protective equipment (PPE)
- function(s) and operational specifications of the electronic equipment/sub-assembly and electrical principles associated with electronic sub-assemblies
- implications of electro-static discharge (ESD) upon the electronic equipment
- procedures for:
 - running built-in test functions
 - recording faults and/or equipment status identified by built-in test functions/displays
 - checking electronic equipment/sub-assemblies, components, connections and terminations for compliance with specifications

- removing/refitting faulty components from electronic equipment
- testing electronic equipment
- recording electronic equipment test results
- isolating electronic equipment/sub-assemblies
- recording/documenting the maintenance servicing of the electronic equipment/sub-assembly
- adjusting/tuning and calibrating and return the electronic equipment/sub-assembly back into service and tools, equipment and techniques to be used
- checking the electronic equipment/sub-assembly for conformance to specification and equipment and techniques to be used
- errors indicated by built-in devices
- tools and techniques to be used to remove/replace components from/into electronic equipment
- equipment and techniques to be used to test the electronic equipment.

Assessment Conditions

- Assessors must:
 - have vocational competency in maintaining/servicing analog/digital electronic equipment at least to the level being assessed with relevant industry knowledge and experience
 - satisfy the assessor requirements in the *Standards for Registered Training Organisations 2015* or its replacement and comply with the *National Vocational Education and Training Regulator Act 2011*, its replacement or equivalent legislation covering VET regulation in a non-referring state/territory as the case requires
- Where possible assessment must occur in operational workplace situations. Where this is not possible or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment that reflects realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>