



Australian Government

Assessment Requirements for MEM18058 Modify electronic equipment

Release: 1

Assessment Requirements for MEM18058 Modify electronic equipment

Modification History

Release 1. Supersedes and is equivalent to MEM18058C Modify 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 obtaining relevant data with respect to modifying electronic equipment
- isolating and tagging electronic equipment in strict accordance with work health and safety (WHS) requirements and procedures using appropriate lock-off equipment and tags/signs
- checking that the electronic equipment is isolated and tagged where necessary
- removing sub-assembly/equipment from the system and carrying out applicable modifications
- refitting modified sub-assembly/equipment to system and checking/testing for compliance to specifications utilising appropriate test equipment
- recommissioning electronic equipment using appropriate techniques and procedures
- amending circuit diagrams, schematics, equipment manuals, specifications affected by the modifications
- recording all modifications according to 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)
- implications of electro-static discharge (ESD) upon the electronic equipment
- system concept, including software/hardware systems, feasibility analysis and circuit analysis
- diagnostic skills and implications relative to the modification
- modification and specification requirements and sources of technical advice applicable to the modification
- procedures for isolating and removing equipment from the system
- permits/approvals required

- tools and equipment and specialised fitting requirements necessary to carry out the modification
- operational specifications, procedures of electronic equipment and the applicable test equipment
- procedures for recommissioning electronic equipment.

Assessment Conditions

- Assessors must:
 - have vocational competency in modifying 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>