



Australian Government

Assessment Requirements for MEM27033 Perform advanced equipment testing and diagnostics on mobile plant and equipment

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM18073A Perform advanced equipment testing and diagnostics on mobile plant and 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 charts, lists, manufacturer specifications, drawings, personnel accounts/descriptions, history, log books and job records and obtaining and accessing relevant data manually or by electronic means on mobile plant and equipment performance
- identifying hazards associated with mobile plant and equipment and implementing appropriate risk control measures and procedures
- identifying faults by checking equipment for compliance with specifications using appropriate test equipment and appropriate fault-finding techniques
- identifying possible causes for fault and making recommendations for rectifying faults using a rectification strategy, including referral, replacement or dispatch to other personnel
- undertaking calculations and numerical operations associated with advanced equipment testing and diagnostics on mobile plant and equipment
- checking equipment for compliance with specifications after rectification of faults
- documenting all findings and outcomes 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)
- tests to be conducted to diagnose faults at equipment and component level
- sources of information available to assist in fault finding
- uses and parameters of information management systems
- required rectification for equipment faults
- practices and procedures in root cause analysis
- equipment performance specifications
- documentation requirements.

Assessment Conditions

- Assessors must:
 - have vocational competency in performing advanced equipment testing and diagnostics on mobile plant and 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>