



Australian Government

Assessment Requirements for MEM12002 Perform electrical/electronic measurement

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM12002B Perform electrical/electronic measurement

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 measurement requirements from specifications, including sketches and job instructions, schematics, diagrams and technical manuals
- selecting appropriate measuring device to achieve the required outcome
- obtaining measurements by making appropriate connections in a safe and effective manner, interpreting results and recording measurements, as required
- storing and maintaining measuring devices, including undertaking routine care, according to manufacturer's specifications or 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)
- terminology and concepts relating to electrical/electronic measurement
- selection of different measuring devices for particular applications within the scope of this unit
- specifications of selected electro-measuring devices
- application of the settings on each electro-measuring device
- procedures for obtaining electrical/electronic measurements
- procedures for connecting electro-measuring devices to circuitry
- correct scale for each setting on the electro-measuring device
- scale factor to be applied to readings taken from the electro-measuring device
- units applying to electrical and electronic measurements
- precautions to be observed when using measuring devices
- loading effect of meters on a circuit
- maintenance and storage requirements for a range of electro-measuring devices.

Assessment Conditions

- Assessors must:
 - have vocational competency in performing electrical/electronic measurement 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>