



Australian Government

Assessment Requirements for MEM12003 Perform precision mechanical measurement

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM12003B Perform precision mechanical 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 or equipment to achieve the required outcome
- checking the accuracy of the selected measuring equipment where appropriate
- setting up measuring equipment where appropriate
- obtaining measurements on components or equipment in a safe and effective manner, interpreting results and recording measurements, as required
- storing and maintaining measuring devices including routine adjustments 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)
- appropriate precision mechanical measuring device for given measurement requirements
- procedures for verifying equipment being used has been recently calibrated
- procedures for obtaining a range of mechanical measurements and techniques to be used
- suitability of environmental conditions for the measurements being carried out
- setting precision mechanical measuring devices procedures
- accuracy to which a range of precision mechanical measuring devices can be read
- procedures for reading graduated mechanical measuring devices
- units of measurement and numerical operations within the scope of this unit
- specifications of the equipment to be set
- tools and equipment for setting mechanical measuring devices
- procedures and techniques required to undertake adjustments to a range of precision mechanical measuring devices
- storage procedures.

Assessment Conditions

- Assessors must:
 - have vocational competency in performing precision mechanical 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>