



Australian Government

**Assessment Requirements for MEM12019
Measure components using coordinate
measuring machines**

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM12019B Measure components using coordinate measuring machines

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 specifications and sketches for selecting appropriate methods for measuring components using coordinate measuring machines (CMM)
- selecting and loading components and fixtures using appropriate fixture/clamping device
- setting and manually aligning probes in accordance with specifications
- selecting and activating part programs, as required, where machine is fitted with microprocessors and measuring components and interpreting results and reporting all anomalies in accordance with SOPs
- shutting down part program and removing components and cleaning CMMs.

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)
- task-related information on job sheets or equivalent
- pre-start checks
- fixtures/clamping devices, methods and their uses
- storage location and procedures
- procedures for undertaking pre-measurement manual hits for manual alignment and checking probe configuration
- procedures for running and verifying part program
- procedures, methods/techniques for interpreting results and reporting results and recommendations for adjustment
- effects of contamination
- procedures for shutting down part program
- safe removal and handling of components procedures.

Assessment Conditions

- Assessors must:
 - have vocational competency in measuring components using coordinate measuring machines 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>