



Australian Government

**Assessment Requirements for MEM07016
Set and edit computer controlled machines
and processes**

Release: 2

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Modification History

Release 2. Quantum of hours of workplace practice removed. Supersedes and is equivalent to MEM07016 Set and edit computer controlled machines and processes (Release 1).

Release 1. Supersedes and is equivalent to MEM07016C Set and edit computer controlled machines and processes.

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, charts, lists, drawings and other applicable reference documents for computer controlled machine setting and editing
- attaching ancillary devices in accordance with procedures
- selecting appropriate tool and work piece holding fittings and fixtures
- measuring, entering and verifying tool offsets
- undertaking numerical operations and calculations in setting and editing machines and processes
- conducting pre-start checks
- producing and checking first-off samples for conformance with specifications
- editing programs to ensure compliance with specifications
- identifying worn or damaged tooling and taking appropriate corrective action
- instructing machine operator on the sequence of operations.

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)
- ancillary equipment and their applications
- procedures for attaching the ancillary devices to the numerically controlled (CN) and computer numerically controlled (CNC) machines
- work holding devices, their application and procedures for mounting them
- location of work holding fixtures/devices/tools relative to the machine zero or datum
- reasons for establishing tool offsets
- procedures and devices for measuring tool offsets

- procedures for entering, verifying and adjusting tool offset
- operating procedures
- safety features and equipment
- measuring devices/ techniques for checking the parts or product
- effects of changes to cutting feeds and speeds and the impact of changes to the sequence of operations on the part or product to be produced
- procedures for editing programs via the machine controller
- the sequence of operations of the machine/process
- examples of, effects and corrective action to be taken for worn or damaged tooling.

Assessment Conditions

- Assessors must:
 - have vocational competency in setting and editing computer controlled machines and processes 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.
- Assessment must occur in a functioning workplace. Where assessment in the workplace would be unsafe, impractical or threatens the environment, assessment must occur in a sufficiently rigorous simulated environment that reflects the circumstances that would be experienced in a functioning workplace. Assessment must cover all aspects of workplace performance, including 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>