



**Australian Government**

**Assessment Requirements for MEM23003  
Operate and program computers and/or  
controllers in engineering situations**

**Release: 1**

# Assessment Requirements for MEM23003 Operate and program computers and/or controllers in engineering situations

## Modification History

Release 1. Supersedes and is equivalent to MEM23003A Operate and program computers and/or controllers in engineering situations.

## Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and include:

- using selected hardware to complete tasks in accordance with manufacturer instructions and workplace procedures under appropriate supervision following predetermined standards of safety, computer application and technical analysis
- using computer and/or controller equipment on at least two occasions
- accessing and using appropriate software in accordance with manufacturer instructions
- saving and storing documents and other computer and/or controller files in an appropriate directory in accordance with manufacturer instructions and workplace procedures
- identifying and analysing difficulties using appropriate help sources
- preparing work plans for programming or customising task
- writing, testing and amending programs to suit requirements on at least two occasions
- maintaining client engagement with project or task
- maintaining program or system records in accordance with procedures.

*Note: Where a volume and/or frequency is not specified, demonstration must be provided at least once*

## 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:

- functions and operating procedures of computer and/or controller equipment
- applications of available hardware and criteria for selecting the hardware for particular tasks
- procedures for operating hardware
- procedures for checking and replacing hardware consumables
- available software and their applications
- procedures and commands for the use of identified software
- procedures and related requirements for saving and storing documents and computer and/or controller files
- techniques for accessing, transferring, printing computer files or using computer files to control plant and equipment
- techniques for accessing and using manuals and training booklets to solve minor problems

- procedures for accessing sources of help
- techniques for accessing help with typical difficulties with selected applications
- typical programming or customising sequencing and related issues
- techniques and procedures for preparing a work plan for a programming or customising task
- techniques and procedures for writing or customising programs in specified formats and computer language
- techniques and procedures for testing and amending programs
- procedures for checking program alteration with users
- procedures for maintaining records and reports on program or system development or enhancement
- procedures for disseminating information on program or system development
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## Assessment Conditions

- Assessors must:
  - have vocational competency in operating and programming computers and/or controllers in engineering situations 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 that 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.
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## Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>