



Australian Government

Assessment Requirements for MEM09022 Create 2-D code files using computer-aided manufacturing system

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM09022A Create 2D code files using computer aided manufacturing system

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
- preparing for computer-aided manufacture (CAM) by customising system variables, user interface and software defaults and developing manufacturing data to suit specifications and procedures
- importing 2-D models using various file formats, orienting and manipulating them and linking model entities to data attributes
- applying manufacturing data to detailed models to suit requirements
- producing and saving files in various formats and verifying CAM model for logical sequencing and correct manufacturing procedures
- producing code from completed 2-D CAM model.

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
- model features of the CAM software system
- operation of the CAM software system
- system variables and procedures for customising user interface and system defaults
- procedures for developing macros
- procedures for linking model entities to database attributes
- CAD file conversion
- CAM file formats
- procedures for saving and managing CAM files.

Assessment Conditions

- Assessors must:

- have vocational competency in creating 2-D code files using computer-aided manufacturing system 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>