



Australian Government

Assessment Requirements for MEM09023 Create 3-D code files using computer-aided manufacturing system

Release: 1

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Modification History

Release 1. Supersedes and is equivalent to MEM09023A Create 3D 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 to produce 3-D computer-aided manufacture (CAM) code files by coordinating system, orientation and views to suit specifications and procedures
- importing 3-D models using various file formats and orienting and manipulating them, and linking model entities to data attributes to suit job requirements
- developing manufacturing data from 3-D CAM model to suit requirements
- producing and saving files in various formats for retrieval and verifying CAM model for logical sequencing and correct manufacturing procedures
- producing code from completed 3-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
- coordinate systems
- orientation of the model with respect to the coordinate system
- procedures for customising system defaults and user interface
- entities that can be manipulated in 3-D space
- procedures for manipulating entities in 3-D space
- procedures for using the post processor
- procedures for saving and storing CAM files
- CAD file conversions
- CAM file formats.

Assessment Conditions

- Assessors must:

- have vocational competency in creating 3-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>