



Australian Government

**Assessment Requirements for
MSFFDM5009 Generate and transfer
complex computer-aided drawings and
specifications**

Release: 1

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Modification History

Release 1. Unit Code and Application changed. Elements and Performance Criteria simplified and changed to active voice. Range of Conditions removed with relevant information moved to assessment requirements. Assessment Requirements changed. Supersedes and is equivalent to MSFDN5001 Generate and transfer complex computer-aided drawings and specifications.

Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- create two exploded assembly drawings that include:
 - preparation of 3D models
 - creation of perspective views
 - exploding the models to expose all components
 - industry-standard features: drawing name, labelling of all components, dimensions and/or scale bar and specifications
- create two confirmed job sheets that have the necessary orthographic views and all required management and inventory information including file storage, product coding, inventory information and drawing management requirements
- convert two drawings for CNC application, including the creation of layers, assignment of drawing entities and the protection and storage of converted files
- apply information management strategies to manage and store the drawings and job sheets produced (both hardcopy and digital), including version control.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- key aspects of professional design practice
- type, range, uses and limitations of contemporary computer-aided design (CAD) software and applications
- construction processes in the relevant context
- types of construction materials and their characteristics, uses and limitations in the relevant context
- workplace information management systems and processes related to drawings.

Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - product specifications
 - computer-aided drawing equipment and current industry-standard software.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>