



Australian Government

MSFFDM4012 Produce computer-aided line and component production drawings

Release: 1

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Modification History

Release 1. Unit code and title changed. Application changed. Performance Criteria simplified and changed to active voice. Range of Conditions removed with relevant information moved to Assessment Requirements. Assessment Requirements changed to remove duplication with Performance Criteria and clarify volume/frequency of evidence. Supersedes and is equivalent to MSFDN4002 Produce line and component production drawings.

Application

This unit describes the skills and knowledge required to use computing and software capabilities to produce line and component production drawings intended for use in a furnishing industry production, manufacturing or marketing environment.

This unit applies to individuals required to create line drawings as part of their job role in design, manufacturing and similar workplaces for production purposes.

No licensing or certification requirements exist at the time of publication. Relevant legislation, industry standards and codes of practice within Australia must be applied.

Competency Field

Design documentation and machine interface

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Produce line drawings	1.1 Identify and obtain essential information that informs drawing requirements 1.2 Select presentation style and appropriate software to achieve desired result 1.3 Create clear drawings that accurately reflect product specification and presentation requirements
2. Prepare component production drawings	2.1 Obtain essential information on component specifications, dimensions and drawing and labelling management 2.2 Identify drawing conventions and specifications to be noted on drawing 2.3 Plot dimensions and connect to match appropriate drawing view or

Elements	Performance Criteria
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	perspective 2.4 Identify and note required production information, special requirements and drawing information 2.5 Check drawing for accuracy, clarity and compliance with workplace documentation requirements 2.6 Label, store and process drawing in accordance with workplace requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Numeracy skills to interpret and present technical information and calculate measurements.
- Reading skills to interpret requirements.
- Writing skills to communicate production information and requirements.

Other foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MSFDN4002 Produce line and component production drawings.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MSFFDM4012 Produce computer-aided line and component production drawings

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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:

- produce three computer-aided line and production drawings, of which one must be 3D, and:
 - interpret specifications and measurements in two and three-dimensional (2D and 3D) forms across the three drawings.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- typical features and functions of computer-aided drawing programs and their application in producing detailed line and production drawings:
 - drawing tools
 - view displays
 - edit functioning
 - working layers
 - plotting
- basic elements of line and component production drawings:
 - size and shape of component or product
 - projection and production method
 - limits, fits and tolerances of size, form and position
 - surface treatments
 - materials specifications
- regulatory requirements, recognised standards and codes, and industry practices for drawing.

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:
 - design concepts
 - specifications
 - computer-aided design equipment included current industry-standard software.

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

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