



Australian Government

MSFGN2004 Produce simple scale drawings by hand

Release: 1

MSFGN2004 Produce simple scale drawings by hand

Modification History

Release 1. Newly created unit.

Application

This unit describes the skills and knowledge required to prepare drawings by hand, including orthographic projections, to support product design, manufacture and installation. It includes knowledge of basic drawing symbols and conventions and a basic understanding of how computer-aided drawing (CAD) is applied in industry contexts, but does not necessarily cover skills in using CAD or in producing detailed and complex production drawings. Workers with this competency create drawings to support routine production and installation tasks in cabinet making, furniture, furnishing, wood machining and other industries.

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

General

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 Identify drawing requirements	1.1 Identify type of drawing needed from work information provided 1.2 Source relevant information from work documentation and establish geometric features and finished size of item or area to be drawn 1.3 Identify methods for recording spatial and other data in manual and computer-aided drawing 1.4 Obtain drawing materials suited to the type of drawing
2 Prepare drawings	2.1 Make accurate calculations to determine required drawing scale 2.2 Accurately mark critical dimensions and geometric features 2.3 Use established drawing conventions and symbols 2.4 Include explanatory notes and additional production or

Elements	Performance Criteria
	installation information based on work requirements 2.5 Check drawing against requirements to confirm accuracy

Foundation Skills

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

- Reading skills to interpret design and production documentation
- Writing skills to use drawing symbols and notations and provide simple information to support drawings
- Numeracy skills to calculate lengths, areas, volumes and angles, to make calculations related to scale, and to work with geometric concepts.

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

Unit Mapping Information

Release 1. New unit. No equivalent unit.

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 MSFGN2004 Produce simple scale drawings by hand

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Performance Evidence

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

- produce at least one drawing to communicate a design idea for a furniture or furnishing product or component
- produce at least one set of drawings to guide manufacture, assembly and installation of a furniture or furnishing component, including:
 - 1 orthographic projection (front, top and side views)
 - 1 section view
 - 1 detail view.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- drawing conventions according to Australian Standard AS1100
 - centre lines
 - visible lines
 - hidden lines
 - dimension lines
 - hatching
 - breaks
 - end sections
 - symbols representing materials
 - title block
- appropriate scales for different purposes
- the use of drawings in cutting lists
- basic aspects of how computer-aided drawing (CAD) is used by industry, including the links between CAD and CNC production machinery.
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Assessment Conditions

Skills must have been demonstrated under routine supervision 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 required for performance evidence, including:
 - workplace information on which to base drawings
 - drawing materials.

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

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