



**Australian Government**

**Assessment Requirements for MSFDN5001  
Generate and transfer complex  
computer-aided drawings and specifications**

**Release: 1**

# Assessment Requirements for MSFDN5001 Generate and transfer complex computer-aided drawings and specifications

## Modification History

Release 1 - New unit of competency

## Performance Evidence

- Interpret work order and locate and apply relevant information
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Identify materials used in the work process
- Follow work instructions, operating procedures and inspection processes to:
  - minimise the risk of injury to self or others
  - prevent damage to goods, equipment and products
  - maintain required production output and product quality
- Create a minimum of two (2) exploded assembly drawings, including:
  - preparation of three-dimensional models
  - creation of perspective views
  - exploding the models to expose all components
  - labelling of all components
  - management and storage of drawings
- Create a minimum of two (2) confirmed job sheets which have the necessary orthographic views and all required management and inventory information
- Convert a minimum of two (2) drawings for CNC application, including the creation of layers, assignment of drawing entities and the protection and storage of converted files
- Use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate material requirements
- Communicate ideas and information to enable confirmation of work requirements and specifications and the reporting of work outcomes and problems, interpret basic plans and follow safety procedures
- Avoid backtracking, work flow interruptions or wastage
- Work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity
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## Knowledge Evidence

- Design core and professional practices
- Ergonomic principles for furniture design and manufacture
- Type, range, uses and limitations of contemporary computer-aided design (CAD) software
- Types, range, uses and limitations of contemporary CAD applications

- Industry product ranges and detailed knowledge of furniture construction processes
- Types of construction materials and their characteristics, uses and limitations
- Materials, trims, accessories and their properties and characteristics
- Enterprise information management systems and processes related to drawings
- Relevant WHS legislation, regulatory requirements and codes of practice

## Assessment Conditions

- Assessors must:
  - hold training and assessment competencies as determined by the National Skills Standards Council (NSSC) or its successors
  - have vocational competency in the furnishing industry at least to the level being assessed with broad industry knowledge and experience, usually combined with a relevant industry qualification
  - be familiar with the current skills and knowledge used and have relevant, current experience in the furnishing industry.
- Assessment methods must confirm consistency of performance over time rather than a single assessment event and in a range of workplace relevant contexts.
- Assessment must be by observation of relevant tasks with questioning on underpinning knowledge and, where applicable, multimedia evidence, supervisor's reports, projects and work samples.
- Assessment is to be conducted on single units of competency or in conjunction with other related units of competency. Foundation skills are integral to competent performance in the unit and should not be assessed separately.
- Assessment must occur on the job or in a workplace simulated facility with relevant process, equipment, materials, work instructions and deadlines.
- Access is required to real or appropriately simulated situations involving the application of drawing and drafting techniques and to the related computing, operational and inventory support systems.

## Links

Companion Volume implementation guides are found in VETNet -

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