



Australian Government

MSFFM3005 Fabricate custom furniture

Release: 1

MSFFM3005 Fabricate custom furniture

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers planning, constructing and assembling custom furniture in response to specific orders and job requests.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Competency Field

Unit Sector

Furniture Making

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 1 | Prepare for work | 1.1 | Custom job requirements, including design, tolerances, process, materials, finish and quantity, are determined from job request and customer specifications |
| | | 1.2 | Construction and assembly sequence are planned |
| | | 1.3 | Procedures are determined for checking quality at each stage of the process |
| | | 1.4 | Work health and safety (WHS) requirements, including personal protection needs, are observed throughout the work |
| | | 1.5 | Suitable work area is selected for the task |
| | | 1.6 | Preparatory drawings and set-outs for tasks are completed |
| | | 1.7 | Cutting list for components is developed |

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| | | 1.8 | Materials are selected following work instructions |
| | | 1.9 | Tools and equipment suitable for construction are identified and checked for safe and effective operation |
| 2 | Complete construction | 2.1 | Materials are set out and prepared according to work instructions and components are marked according to industry practices |
| | | 2.2 | Tools, machines and equipment are used in accordance with safety requirements and manufacturer specifications |
| | | 2.3 | Materials are bent and formed in accordance with the plan |
| | | 2.4 | Components are manufactured and checked against set-outs for tolerances, fit and accuracy |
| 3 | Assemble custom furniture | 3.1 | Components are assembled and checked against set-outs for accuracy, fit, twist and distortion |
| | | 3.2 | Doors, drawers and shelves are assembled and fitted |
| | | 3.3 | Hardware and decorative accessories are applied to specification |
| | | 3.4 | Product is prepared for final finish, including the removal of bruises, scratches, dents and marks |
| | | 3.5 | Product is checked against plans at identified checkpoints and customer acceptance determined |
| 4 | Finalise operation and maintain equipment | 4.1 | Work area is cleaned, hand and/or power tools and equipment are cleaned, maintained and stored in accordance with workplace procedures |
| | | 4.2 | Machinery is cleaned and left in a safe mode |
| | | 4.3 | Faulty and/or defective equipment is tagged and reported in accordance with workplace practices |
| | | 4.4 | Unused hardware is collected and stored for re-use or disposal following workplace procedures |
| | | 4.5 | Waste and scrap materials are dealt with following workplace procedures |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Range is restricted to essential operating conditions and any other variables essential to the work environment.

Custom furniture includes:

- one-off manufacture in response to specific customer requirements. It does not include variations or modification to a production line item. It covers:
 - wall units
 - vanity units
 - kitchen cabinets
 - sideboards/buffets
 - drawer units
 - display cabinets
 - counters
 - tables
 - beds

Unit context includes:

- WHS requirements, including legislation, building codes, material safety management systems, hazardous substances and dangerous goods code, and local safe operating procedures
- work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements
- work involves reading and interpreting plans, customer liaison, developing set-outs, using hand and/or power tools, equipment and operating woodworking machinery
- competency may be demonstrated in workplaces involved in the manufacture of solid timber domestic furniture, commercial furniture and/or furniture components

Material bending and forming techniques include:

- steam and bend
- machined curves

Tools and equipment include:

- measuring tapes or rulers
- hammers
- mallets
- squares
- bevels
- chisels
- planes
- hand saws
- power saws
- portable routers and trimmers
- power drills/screwdrivers
- pneumatic tools, compressor and spray equipment
- hoses
- clamps
- screwdrivers and pincers

Machines include:

- band saws
- cross-cut saws
- mitre saws
- panel and rip saws
- surface planers
- panel planers
- shaping machines and jigs
- sanders
- horizontal borers
- vertical drill presses
- dovetailers
- pedestal grinders
- wood-turning lathes
- veneer guillotines and presses

Materials include:

- timber
- adhesives
- screws
- nails
- dowels
- metal fasteners
- knock-down fittings
- glass
- decorative finishes and abrasive paper

Personal protective equipment includes:

- that prescribed under legislation, regulations and enterprise policies and practices

Information and

- workplace procedures relating to the use of tools and

procedures include:

- equipment
- work instructions, including job sheets, cutting lists, plans, drawings and designs
- workplace procedures relating to reporting and communication
- manufacturer specifications and operational procedures

Unit Mapping Information

Supersedes and is equivalent to LMFFM3005B Fabricate custom furniture.

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 MSFFM3005 Fabricate custom furniture

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Performance Evidence

- Interpret work order and locate and apply relevant information
- Apply safe handling practices for equipment, products and materials
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Follow work instructions, operating procedures and inspection processes to:
 - minimise the risk of injury to self or others
 - prevent damage to goods, equipment or products
 - maintain required production output and product quality
- Produce one (1) significant furniture item to customer specifications in terms of dimensions, materials, function and aesthetics using:
 - custom-developed machining processes and outcomes
 - custom development and completion of assembly techniques and processes
- 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
- Minimise wastage of resources, including materials, time and money
- Work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity

Knowledge Evidence

- Types, characteristics, uses and limitations of materials most common to furniture production
- Interpretation of plan representation of furniture design
- Preparation of drawings/set-outs/rods
- Identification of hand and/or power tools, materials, equipment, processes and procedures
- Work flow in relation to furniture production

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 plans, tools and equipment required to fabricate custom furniture.

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