



Australian Government

MSFFM2003 Select and apply hardware

Release: 1

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Modification History

Release 1 - New unit of competency

Application

This unit of competency covers selecting and applying hardware to new and refurbished furniture.

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 | Plan and prepare work | 1.1 | Work instructions are used to determine job requirements, including design, colour, finish process and required hardware quality |
| | | 1.2 | Work health and safety (WHS) requirements, including personal protection needs, are observed throughout the work |
| | | 1.3 | Types of hardware are identified and selected for the work |
| | | 1.4 | Tools, equipment and accessories for application are identified and checked for safe and effective operation |
| | | 1.5 | Surfaces are cleaned and prepared to enable accurate colour matching |
| 2 | Apply and/or fit and finish | 2.1 | Hardware items are laid out/placed in the required design |

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|-----|--|--|-----|--|-----|--|-----|---|-----|---|-----|---|
| | 2.2 | Machinery is used in accordance with workplace procedures, including use of personal protective equipment | | | | | | | | | | |
| | 2.3 | Joining/securing process is undertaken according to workplace procedures | | | | | | | | | | |
| | 2.4 | Adhesives are applied according to workplace procedures and/or manufacturer instructions | | | | | | | | | | |
| | 2.5 | Work is checked against required quality standards | | | | | | | | | | |
| 3 | Finalise operation and maintain equipment | <table border="0"> <tr> <td>3.1</td> <td>Work area is cleaned, hand and/or power tools and equipment are cleaned, maintained and stored in accordance with workplace procedures</td> </tr> <tr> <td>3.2</td> <td>Machinery is cleaned and left in a safe mode</td> </tr> <tr> <td>3.3</td> <td>Faulty and/or defective equipment is tagged and reported in accordance with workplace practices</td> </tr> <tr> <td>3.4</td> <td>Unused hardware is collected and stored for re-use or disposal following workplace procedures</td> </tr> <tr> <td>3.5</td> <td>Waste and scrap materials are dealt with following workplace procedures</td> </tr> </table> | 3.1 | Work area is cleaned, hand and/or power tools and equipment are cleaned, maintained and stored in accordance with workplace procedures | 3.2 | Machinery is cleaned and left in a safe mode | 3.3 | Faulty and/or defective equipment is tagged and reported in accordance with workplace practices | 3.4 | Unused hardware is collected and stored for re-use or disposal following workplace procedures | 3.5 | Waste and scrap materials are dealt with following workplace procedures |
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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.

Hardware includes:

- hinges
- handles
- drawer-runners
- metal drawer systems

Unit context includes:	• sliding rail systems • rotating storage systems and slide-out storage systems • 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 requires individuals to demonstrate some discretion, judgement and problem solving in selecting and applying hardware • competency may be demonstrated in workplaces involved in the manufacture of solid timber furniture, domestic furniture, commercial furniture, kitchen and bathroom cabinets and/or furniture components
Tools and equipment include:	• measuring tapes or rulers • levelling devices • hammers • mallets • squares • bevels • chisels • planes • hand saws • power saws • power drills/screwdrivers • pneumatic tools, compressor and spray equipment • clamps • screwdrivers • pincers
Materials include:	• timber • manufactured board • hardware consumables • cleaning chemicals and materials
Personal protective equipment includes:	• that prescribed under legislation, regulations and enterprise policies and practices
Information and procedures include:	• workplace procedures relating to the use of tools and 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 LMFFM2003B Select and apply hardware.

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 MSFFM2003 Select and apply hardware

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Performance Evidence

- Interpret work order and locate relevant information
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Follow work instructions, operating procedures and inspection practices to:
 - prevent damage to goods, equipment and products
 - maintain required production output and product quality
 - minimise the risk of injury to self or others
- Select and apply/fit six (6) different items of hardware
- 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 hardware
- Interpretation of plan representation of furniture design
- Preparation of drawings/set-outs
- 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, hand and/or power tools, equipment, hardware materials and woodworking machinery.

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