



Australian Government

MSFFM4001 Hand carve wood to custom design

Release: 1

MSFFM4001 Hand carve wood to custom design

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers confirming the design requirements, selecting the wood, hand carving it to custom design and preparing the carving for finishing. It applies to a work room and on-site environment and involves application of skills and knowledge at the highly skilled craftsman or artisan level.

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.

1	Confirm the design requirements	1.1	Applicable work health and safety (WHS), legislative and organisational requirements and instructions relevant to the hand carving of wood are verified and complied with
		1.2	Product design requirements are accessed and confirmed as being feasible
		1.3	Product design requirements are elaborated on as required and documented to enterprise requirements
2	Select and prepare the wood to be hand carved	2.1	The design requirements in terms of product specification and product usage are analysed and confirmed
		2.2	Wood species to satisfy the product specifications are identified

- 2.3 Wood for carving is selected from a detailed analysis and comparison of the product specification and the characteristics, properties and costs of the available wood species
 - 2.4 Selected wood is prepared for hand carving
 - 3 Select carving tools
 - 3.1 Carving tools selected are the most appropriate for the job
 - 3.2 Selected carving tools are checked for serviceability, sharpness, maintenance compliance and safety
 - 3.3 Faults are rectified or passed to qualified persons for rectification
 - 3.4 Equipment is selected to hold or support material for hand tools application, where applicable
 - 4 Carve the wood
 - 4.1 Method and style of wood carving are selected to meet the design requirements and the selected wood
 - 4.2 Carving patterns are applied to and enfacd on the wood to guide the carving and optimise the use of the wood
 - 4.3 Carving tools are applied initially to bulk clearances which confirm the wood grain selection and the appropriateness of the tools
 - 4.4 Carving tools are applied to the precision requirements of the product design
 - 5 Finalise the work sequence
 - 5.1 The product is prepared for finishing in accordance with the design specification
 - 5.2 Carving tools are cleaned, maintained and stored in accordance with manufacturer specification
 - 5.3 Work area is cleared and waste removed
 - 5.4 Workplace documentation and/or reports are completed

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.

Legislative requirements include:

- applicable legislation from all levels of government that affect organisational operation
- award and enterprise agreements
- industrial relations
- Australian Standards
- confidentiality and privacy
- WHS
- the environment
- equal employment opportunity (EEO)
- anti-discrimination
- relevant industry codes of practice
- duty of care and heritage

WHS requirements include:

- Commonwealth, state or territory legislation and regulations
- organisational safety policies and procedures
- the use of personal protective equipment and clothing
- firefighting equipment
- first aid equipment
- hazard and risk control and elimination of hazardous materials and substances
- manual handling, including lifting and carrying

Organisational requirements include:

- legal, organisational and site guidelines, policies and procedures relating to own role and responsibility
- quality assurance
- procedural manuals
- quality and continuous improvement processes and standards
- ethical standards
- recording and reporting
- access and equity principles and practices

- equipment use, maintenance and storage
 - environmental management (waste disposal, recycling and re-use guidelines)
- Instructions include:**
- workplace procedures relating to the use and operation of tools and equipment
 - production planning figures
 - workplace instructions, including job sheets, plans, specifications, drawings and designs
 - workplace procedures relating to reporting and communications
 - manufacturer instructions for the use of equipment and materials
- Wood species for carving include:**
- lime and ash
 - maple
 - cherry
 - English oak
 - American oak
 - Japanese oak
 - walnut
 - Brazilian mahogany
 - sycamore
 - holly
 - apple
 - pear
 - beech
 - teak
 - iroko
 - rosewood
 - ebony
 - ramin
 - blackwood
- Preparation of wood for hand carving includes:**
- confirmation of grain
 - identification and response to faults
 - knots and contaminants
 - cutting of wood to workable size and shape
- Carving tools include:**
- carving knives
 - chisels (straight and curved)
 - short bent front bent
 - spoon bit
 - back bent
 - skew
 - fishtail

- spade
 - parting tool
 - macaroni (fluterino and backeroni)
 - palm tools
 - rasps
 - riffers
 - punches
 - gouges
 - venier
 - router
- Tool sharpening includes:**
- grinding and sharpening using a sandstone wheel or high-speed carborundum stone, a fine oilstone or a fine carving stone
 - sharpening a carver's chisel/implement involves sharpening bevels on both sides and rounding off bevels
- Methods and styles of wood carving include:**
- chip carving
 - relief carving
 - Scandinavian flat plane
 - caricature carving
 - love spoon
 - treen
 - whittling
- Personal protective equipment includes:**
- that prescribed under legislation, regulations and enterprise policies and practices

Unit Mapping Information

Supersedes and is equivalent to LMFFM4005A Hand carve wood to custom design.

Links

Companion Volume implementation guides are found in VETNet -

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