



Australian Government

MSFFDT4013 Select, use and maintain hand tools for the creation of custom furniture

Release: 1

MSFFDT4013 Select, use and maintain hand tools for the creation of custom furniture

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers selecting and using hand tools in applications relating to custom furniture making sector and includes manufacturing specialist hand tools to support unique functions. It 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 design and technology

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 | Identify hand tools | 1.1 | Applicable work health and safety (WHS), legislative and organisational requirements relevant to the selection and use of hand tools are verified and complied with |
| | | 1.2 | Type and range of hand tools, their functions, manufacturing specifications and quality reputations are identified and researched |
| 2 | Select hand tools | 2.1 | Hand tools most appropriate for the job are selected |
| | | 2.2 | Selected hand tools are checked for serviceability, precision settings, maintenance compliance and safety |
| | | 2.3 | Faults are rectified or passed to qualified persons for rectification |

		2.4	Equipment is selected to hold or support material for hand tools application where applicable
3	Manufacture specialist hand tools	3.1	The need for specialist hand tools is established after full research and discounting of existing capabilities and availabilities
		3.2	The design of the specialist tool is completed and verified
		3.3	The material for the specialist tool is selected after full consideration of the functions and the material options
		3.4	The specialist tool is manufactured to specification
		3.5	The specialist tool is tested and modified to satisfy the function
		3.6	Design specifications are documented and retained in the enterprise filing systems
4	Use hand tools	4.1	Hand tools are safely located when not in immediate use
		4.2	Material is located and held in position for hand tool application
		4.3	Hand tools safety requirements are complied with throughout the operation
		4.4	The full capability of the hand tool is professionally applied and adjusted to achieve the required specificity of outcome
		4.5	Mid-operation maintenance is carried out to ensure continuing achievement of specified outcomes
5	Clean up work area and tools	5.1	All tools are cleaned, maintained and stored in accordance with manufacturer specifications
		5.2	Equipment is cleaned, maintained and stored
		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.

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|-------------------------------|---|
| Unit context includes: | <ul style="list-style-type: none">• WHS requirements, including legislation, building codes, material safety management systems, hazardous and dangerous goods codes, and local safe operating procedures or equivalent• 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 conceptual and analytical ability, discretion, judgement and problem solving• customers or suppliers may be internal or external |
| Instructions include: | <ul style="list-style-type: none">• workplace procedures relating to the use and operation of tools and equipment• production planning figures• workplace instructions:<ul style="list-style-type: none">• job sheets• plans• specifications• drawings and designs• workplace procedures relating to reporting and communications• manufacturer instructions for the use of equipment and materials |
| Hand tools include: | <ul style="list-style-type: none">• hand planes• chisels• hand saws• spokeshave• hammer |

- mallet
- marking-out tools
- files
- rasps
- scraper
- screwdrivers
- hand drill
- straight edges
- knives
- clamps
- steel/bronze wool
- sandpaper
- brushes
- stone and whetstone
- grinder

Fault reporting includes:

- verbal or written reporting

Personal protective equipment includes:

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

Information and procedures include:

- work procedures/instructions
- manufacturer specifications and instructions
- standard forms of workplace process and procedures
- organisation work specifications and requirements
- legislation, regulations and codes of practice
- quality and Australian Standards and procedures

Unit Mapping Information

Supersedes and is equivalent to LMFFDT4016A Select, use and maintain hand tools for the creation of 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 MSFFDT4013 Select, use and maintain hand tools for the creation of custom furniture

Modification History

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Performance Evidence

- Collect, organise and understand information related to furnishing work instructions and work orders and safety procedures
- 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
- Locate and apply relevant information related to hand tools
- Adopt and carry out correct procedures prior to and during use of the range of hand tools including hand planes, chisels, hand saws, spokeshave, hammer, mallet, marking-out tools, files, rasps, scrapers, screwdrivers, hand drills, straight edges, knives and clamps
- Design and manufacture one (1) specialist hand tool for a specified production function
- Tune and sharpen:
 - chisels
 - hand planes
 - spokeshave
- Use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate material requirements
- Lead others and work effectively to improve production quality and outcomes
- 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
- Use workplace technology related to the coordination, including communication equipment, time and management aids and other measuring devices
- 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 and encourage participation of employees in the planning of work activities and changes

Knowledge Evidence

- State or territory WHS legislation, regulations, standards and codes of practice relevant to use of hand tools

- Organisational and site standards, requirements, policies and procedures for use of hand tools
- Types, characteristics, uses, limitations and maintenance requirements of the range of hand tools used in furniture production
- Manufacturing specifications for hand tools
- Processes for evaluating the quality of hand tools in terms of specifications, safety, maintainability and commercial reputation
- Established communication channels and protocols
- Techniques for the design of specialised hand tools and the manufacturer of one-off tools
- Relevant problem identification and resolution
- Workplace safety requirements and WHS legislation
- Work flow within the workplace

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 range of quality hand tools and support documentation, legitimate specialist hand tool requirements and specifications.

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