



Australian Government

MSFFDT4009 Set up, operate and maintain basic static woodworking machines for furniture designs

Release: 1

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Modification History

Release 1 - New unit of competency

Application

This unit of competency covers setting up, operating and maintaining basic static woodworking machines to achieve furniture design requirements, including tuning and general problem solving. 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.	
1	Determine set-up and operating requirements of woodworking machines	1.1	Applicable work health and safety (WHS), legislative and organisational requirements relevant to the selection and use of static woodworking machines are verified and complied with
		1.2	Set-up requirements for static woodworking machines are identified according to furniture design and safety requirements
		1.3	Operating requirements to achieve design outcomes are identified and safety requirements determined
2	Set up and operate static woodworking	2.1	Selected machines are checked for serviceability, precision settings, maintenance compliance and safety
		2.2	Work specifications and instructions are interpreted and

	machines		machines are set up to perform operations
		2.3	Machines are operated according to manufacturer operating procedures to achieve required work outcome
		2.4	Work is monitored to ensure quality standards are met
		2.5	Safety procedures are followed
3	Maintain static woodworking machines	3.1	Machines are assessed for performance compliance
		3.2	Faults or non-compliances are identified and rectified, replaced or reported according to workplace procedures
		3.3	Problem-solving techniques are applied to identify and address operational problems
		3.4	Routine maintenance is conducted to ensure optimal performance of machines
		3.5	Work area is maintained to housekeeping standards
		3.6	All machines are cleaned, maintained and stored in accordance with manufacturer specifications

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.

Unit context includes:

- 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
Static woodworking machines include:	• work requires individuals to demonstrate conceptual and analytical ability, discretion, judgement and problem solving • customers or suppliers may be internal or external • table saw • thicknesser • jointer • band saw
Problem-solving techniques include:	• root cause analysis (RCA) • consultation with colleagues, designers, manufacturers, technicians and maintenance personnel • re-setting of machine • routine maintenance
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 LMFFDT4011A Set up, operate and maintain basic static woodworking machines for furniture designs

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 MSFFDT4009 Set up, operate and maintain basic static woodworking machines for furniture designs

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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 and set up, operate and maintain a table saw, thicknesser, jointer and band saw.
- 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 static woodworking machines
- Organisational and site standards, requirements, policies and procedures for use of static woodworking machines
- Types, characteristics, uses, limitations and maintenance requirements of the range of static woodworking machines used in furniture production
- Manufacturing specifications for static woodworking machines
- Processes for evaluating the quality of static woodworking machines in terms of specifications, safety, maintainability and commercial reputation

- Established communication channels and protocols
- Relevant problem identification and resolution
- Workplace safety requirements and WHS legislation
- Work flow within the furnishing 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 woodworking equipment and support documentation, specialist woodworking machines, related hand tools and maintenance specifications.

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