



Australian Government

MSFFM2010 Set up and operate basic static machines

Release: 1

MSFFM2010 Set up and operate basic static machines

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers operating and maintaining basic static machines used for sawing, planing, sanding and drilling in the production of 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.

- | | |
|--------------------|---|
| 1 Prepare for work | 1.1 Work instructions are used to determine job requirements, including design, quality, materials, equipment, and quantities |
| | 1.2 Cutting list and job specifications are read and interpreted |
| | 1.3 Work health and safety (WHS) requirements, including ventilation requirements and personal protection needs, are observed throughout the work |
| | 1.4 Material for machining is selected and inspected for quality |
| | 1.5 Machines, cutting tools and jigs are identified and checked for safe and effective operation |
| | 1.6 Procedures are determined for minimising waste material |
| | 1.7 Procedures are identified for maximising energy efficiency while completing the job |

- | | | |
|---|---|---|
| 2 | Set up machines | 2.1 Safety equipment, including emergency stops, gauges, guards and controls are checked |
| | | 2.2 Machine settings and adjustments are made in accordance with job requirements and machine and tool manufacturer instructions |
| | | 2.3 Trial runs are conducted to check machine operation, accuracy and quality of finished work |
| | | 2.4 Necessary adjustments are made to machine settings |
| 3 | Operate machines | 3.1 Machine start-up procedure is carried out in accordance with manufacturer instructions |
| | | 3.2 Material is fed into machine in accordance with manufacturer instructions, safe handling procedures and standard workplace operating procedures |
| | | 3.3 Machine is operated in accordance with its designed capacity and purpose, tooling requirements and to manufacturer recommendations |
| | | 3.4 Machine operation is monitored to ensure product quality and output |
| | | 3.5 Waste quantities are checked and minimised |
| | | 3.6 Items that do not meet quality requirements are repaired, recycled or discarded according to workplace procedures |
| | | 3.7 Problems with the required work and/or the operation of the machine are identified and reported to appropriate persons |
| 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.

Basic static machines include:

- cross-cut saw
- rip saw
- panel saw
- surface planer (buzzer/jointer)
- disc sander
- belt sander, including linisher, edge sander and stroke (Lacey) sander
- vertical drill press
- horizontal borer (single bit)
- band saw
- panel planer (thicknesser)
- bobbin sander

Tasks include:

- docking, including:
 - (oversize + 20 mm)
 - (accurate to +/- 0.25 mm)
 - square (no tolerance)
- parallel rip (oversize by 5 mm+)
- setting up scribe saw
- setting up riving knife to AS 1473-1991 Guarding and safe use of woodworking machinery
- cutting flat panel board (off rip fence using scribe saw)
- cutting flat panel board (off cross-cut fence using scribe saw)
- machining face
- machining edge
- machining chamfer or bevel

	• sanding straight surface • sanding convex surface • sanding end grain • removing/replacing belts • sanding veneer face of flat panel board • sanding solid timber face • sanding solid timber edges (remove arris/shape) • selecting and replacing drill bits • drilling holes to pre-determined depths vertically • drilling holes to pre-determined depths horizontally • hinge boring • removing/replacing saw blade • folding, unfolding, reversing saw blade • blade identification/selection • off fence ripping • freehand ripping • freehand curve cutting • parallel plane width • parallel plane thickness • sand concave surface • machine fault-finding
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 requires individuals to demonstrate some discretion, judgement and problem solving in the set up, operation and maintenance of machines • 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
Materials to be machined include:	• solid timber • manufactured board • metal • uPVC
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 LMFFM2010B Set up, operate and maintain basic static machines.

Links

Companion Volume implementation guides are found in VETNet -

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