



Australian Government

MSFFM2012 Set up, operate and maintain pressure and clamping machines

Release: 1

MSFFM2012 Set up, operate and maintain pressure and clamping machines

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers setting up, operating and maintaining pressure and clamping machines using their full potential and capacities 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.

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| 1 Prepare for work | <div style="display: flex; flex-direction: column; gap: 10px;"><div>1.1 Work instructions are used to determine job requirements, including design, quality, materials, equipment and quantities</div><div>1.2 Work health and safety (WHS) requirements, including personal protection needs, are observed throughout the work</div><div>1.3 Material for machining is selected and inspected for quality</div><div>1.4 Pressure and clamping machines, cutting tools and jigs are identified and checked for safe and effective operation</div><div>1.5 Procedures are determined for minimising waste material</div><div>1.6 Procedures are identified for maximising energy efficiency while completing the job</div></div> |
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| 2 | Set up machines | 2.1 | Safety equipment, including emergency stops, gauges, guards and controls are checked |
| | | 2.2 | Pressure and clamping 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 placed into machine in accordance with manufacturer instructions, tooling requirements, safe handling procedures and standard workplace operating procedures |
| | | 3.3 | Machine is operated in accordance with its designed capacity and purpose and to manufacturer recommendations |
| | | 3.4 | Machine operation is monitored to ensure product quality and output |
| | | 3.5 | Items that do not meet quality requirements are recycled or discarded according to workplace procedures |
| | | 3.6 | 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 material 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.

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| Pressure and clamping machines include: | <ul style="list-style-type: none">• manual clamps and presses• hydraulic vacuum presses and clamping machines• post-forming machines |
| Materials to be pressed/clamped include: | <ul style="list-style-type: none">• solid timber• manufactured board and decorative treatments• laminates |
| Products include: | <ul style="list-style-type: none">• vacuum formed doors• widening joints• framed construction• drawers and laminating veneers |
| Unit scope includes: | <ul style="list-style-type: none">• individuals to read and interpret production instructions, complete adjustments to machine configurations and settings, using jigs and fixtures, select and apply adhesives and operate machines to finish products |
| Unit context includes: | <ul style="list-style-type: none">• 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 and operation of machines• competency may be demonstrated in workplaces involved in the manufacture of domestic and commercial furniture, including kitchen and bathroom cabinets and/or furniture |

	components
Tools and equipment include:	• screwdrivers • hammers and spanners
Materials include:	• pressure and clamping machine consumables • oils and lubricants, trial materials and packing
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 LMFFM2012B Set up, operate and maintain pressure and clamping machines.

Links

Companion Volume implementation guides are found in VETNet -

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