



Australian Government

Department of Education, Employment and Workplace Relations

LMFFM3024B Set up, operate and maintain multi-head planing and moulding machines

Revision Number: 1

LMFFM3024B Set up, operate and maintain multi-head planing and moulding machines

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit covers the competency to set up, operate and maintain multi-head planing and moulding machines using their full potential and capacities in the production of furniture. It encompasses and builds on other machines and tasks covered in unit <i>LMFFM2010A, Set up, operate and maintain basic static machines</i>
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Application of the Unit

Application of the unit	
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	Nil	

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for work	1.1. Work instructions are used to determine job requirements, including design, quality, materials, equipment, and quantities 1.2. Job specifications are read and interpreted 1.3. Workplace health and safety requirements, including personal protection needs, are observed throughout the work 1.4. Material for machining is selected and inspected for quality 1.5. Machines and cutting tools 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 manufacturers' instructions 3.2. Material is fed into machine in accordance with manufacturers' 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 manufacturers' 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. Clean up work area and maintain equipment	4.1. Material that can be reused is collected and stored 4.2. Waste and scrap are removed following workplace procedures

ELEMENT	PERFORMANCE CRITERIA
	<p>4.3. Equipment and work area are cleaned and inspected for serviceable condition in accordance with workplace procedures</p> <p>4.4. Unserviceable equipment is tagged and faults identified in accordance with workplace</p> <p>4.5. Operator maintenance is completed in accordance with manufacturers' specifications and site procedures</p> <p>4.6. Tooling is maintained in accordance with workplace procedures</p>

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- collect, organise and understand information related to planing and moulding operations, work orders, plans and safety procedures
- communicate ideas and information to enable confirmation of work requirements and specifications, coordination of work with site supervisor, other workers and customers, and the reporting of work outcomes and problems
- plan and organise activities, including the preparation and layout of the worksite and the obtaining of equipment and materials to avoid any back tracking, workflow interruptions or wastage
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise workflow and productivity
- use mathematical ideas and techniques to correctly complete measurements and estimate material requirements
- use pre-checking and inspection techniques to anticipate planing and moulding problems, avoid reworking and avoid wastage
- use the workplace technology related to planing and moulding, including tools, equipment, calculators and measuring devices

Required knowledge

- the types, characteristics, uses and limitations of planing and moulding machines
- planing and moulding processes and techniques
- characteristics of materials and uses of products produced
- workplace guidelines regarding acceptable tolerance levels
- workplace safety policies and procedures
- procedures for reporting machinery faults and material defects

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Critical Aspects of Evidence

- Interpret work order and locate and apply relevant information
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Read and interpret cutting lists and job specifications to prepare for work
- 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 and wastage of goods, equipment and products
 - maintain required production output and product quality
- Identify, set up, operate and maintain multi-headed planing and moulding machine, including the use of safety cut-outs and guards, to complete the following:
 - square dress timber
 - produce a minimum range of three detailed mouldings profiled on at least one edge and one face to a minimum of Australian Standards criteria
- Conduct operator maintenance on the machine
- Work effectively with others
- Modify activities to cater for variations in workplace context and environment

Resource Implications

Access to a planing and moulding machine as identified in the Range Statement, standard operating procedures, and unprocessed materials.

Method of Assessment

Assessment methods must confirm consistency of performance over time and in a range of workplace relevant contexts.
 Assessment should be by direct observation of tasks and questioning on underpinning knowledge.
 Assessment should be conducted over time and may be in conjunction with assessment of other units of

EVIDENCE GUIDE	
	competency.
Context of Assessment	Assessment may occur on the job or in a workplace simulated facility with relevant process equipment, materials, work instructions and deadlines.

Range Statement

RANGE STATEMENT	
<p>The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.</p>	
<p>Machines are to include:</p>	<ul style="list-style-type: none"> • through and push feed planing and moulding machines <p>Materials to be machined are to include solid timber and may include manufactured board</p>
<p>Unit scope</p>	<p>Work involves changing and maintaining straight and profile knives, setting pressures, adjusting feed speeds, chip breakers, fences and guides, square dressing and producing detailed mouldings</p>
<p>Unit context</p>	<ul style="list-style-type: none"> • OH&S requirements include 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 skills in the set up and operation 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
<p>Tools and equipment are to include machine-specific tools and may include, but not be limited to:</p>	<ul style="list-style-type: none"> • tension wrenches • screwdrivers • hammers and spanners
<p>Materials are to include:</p>	<ul style="list-style-type: none"> • planing and moulding machine consumables • oils and lubricants and trial materials
<p>Personal protective equipment</p>	<p>Personal protective equipment is to include that</p>

RANGE STATEMENT	
	prescribed under legislation, regulations and enterprise policies and practices
Information and procedures	<ul style="list-style-type: none"> • 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 • Manufacturers' specifications and operational procedures

Unit Sector(s)

Unit sector	Furniture Making
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Competency field

Competency field	
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Co-requisite units

Co-requisite units		