



Australian Government

Department of Education, Employment and Workplace Relations

LMFFM3027B Set up, operate and maintain automated edge banding machines

Revision Number: 1

LMFFM3027B Set up, operate and maintain automated edge banding machines

Modification History

Not applicable.

Unit Descriptor

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| Unit descriptor | This unit covers the competency to set up, operate and maintain edge banding machines which use automated processes to apply and finish edge treatments |
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Application of the Unit

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| Application of the unit | |
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Licensing/Regulatory Information

Not applicable.

Pre-Requisites

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| Prerequisite units | Nil | |
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Employability Skills Information

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| 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.

Elements and Performance Criteria

| ELEMENT | PERFORMANCE CRITERIA |
|--|---|
| 1. Prepare for work | <ul style="list-style-type: none">1.1. Work instructions are used to determine job requirements, including quality, materials, equipment, and quantities1.2. Workplace health and safety requirements, including personal protection needs, are observed throughout the work1.3. Material for processing is selected and inspected for quality1.4. Machines and cutting tools are identified and checked for safe and effective operation1.5. Procedures are determined for minimising waste material1.6. Procedures are identified for maximising energy efficiency while completing the job |
| 2. Set up machines | <ul style="list-style-type: none">2.1. Machine settings and adjustments are made in accordance with job requirements and machine and tool manufacturer instructions2.2. Trial runs are conducted to check machine operation, accuracy and quality of finished work2.3. Necessary adjustments are made to machine settings |
| 3. Operate machines | <ul style="list-style-type: none">3.1. Machine start-up procedure is carried out in accordance with manufacturers' instructions3.2. Material is fed into machine in accordance with manufacturers' instructions, tooling requirements, safe handling procedures and standard workplace operating procedures3.3. Machine is operated in accordance with its designed capacity and purpose, and to manufacturers' recommendations3.4. Machine operation is monitored to ensure product quality and output3.5. Waste quantities are checked and minimised3.6. Items that do not meet quality requirements are repaired, recycled or discarded according to workplace procedures3.7. 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 | <ul style="list-style-type: none">4.1. Material that can be reused is collected and stored4.2. Waste and scrap are removed following workplace procedures4.3. Equipment and work area are cleaned and inspected for serviceable condition in accordance with |

| ELEMENT | PERFORMANCE CRITERIA |
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| | workplace procedures 4.4. Unserviceable equipment is tagged and faults identified in accordance with workplace 4.5. Operator maintenance is completed in accordance with manufacturers' specifications and site procedures |

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 automated edge banding machine 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, calculate area and estimate material requirements
- use pre-checking and inspection techniques to anticipate set-up, operating and maintenance problems, avoid reworking and avoid wastage
- use the limited workplace technology related to automated edge banding machines, including tools, equipment, calculators and measuring devices

Required knowledge

- the types, characteristics, uses and limitations of machines
- characteristics, uses and limitations of board products, edging products and adhesives
- 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 to goods, equipment and products
 - maintain required production output and product quality
- Identify, set up and operate an automated (not fully automatic) edging machine to complete the following:
 - the set-up and application of at least three different edge treatment materials
 - the identification and correction of at least two real or simulated machining faults
- Conduct operator maintenance on the machines and equipment
- Work effectively with others
- Modify activities to cater for variations in workplace context and environment

Resource Implications

Access to an automated edge banding machine, 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 competency.

EVIDENCE GUIDE**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 | |
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| <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> | |
| Automated edge banding machines | <p>Automated edge banding machines are those which use automated processes to apply and finish edge treatments</p> <p>Machines are to include a standard automated edger (not fully automatic) and may include a soft forming machine</p> |
| Unit scope | Work involves applying and processing an edge trim to a manufactured board |
| Unit context | <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 domestic furniture, commercial furniture, kitchen and bathroom cabinets and/or furniture components |
| Material to be processed may include but is not limited to: | <ul style="list-style-type: none"> • solid timber and manufactured board |
| Edgings may include, but not be limited to: | <ul style="list-style-type: none"> • solid timber • laminates • plastics • non-ferrous materials and foils |

| RANGE STATEMENT | |
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| Operator maintenance | Operator maintenance is to include the cleaning and refurbishing of the gluing station |
| Personal protective equipment | Personal protective equipment is to include that 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)

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| Unit sector | Furniture Making |
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Competency field

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| Competency field | |
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Co-requisite units

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| Co-requisite units | | |
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