



Australian Government

Department of Education, Employment and Workplace Relations

FPIWPP3224B Profile sand products

Release: 1

FPIWPP3224B Profile sand products

Modification History

Not Applicable

Unit Descriptor

Unit descriptor This unit describes the outcomes required to sand profiled surfaces of products to achieve a smooth surface on a curved or shaped article

General workplace legislative and regulatory requirements apply to this unit; however there are no specific licensing or certification requirements at the time of publication

This unit replaces FPIWPP3224A Profile sand products

Application of the Unit

Application of the unit The unit involves profile sanding products in a forest products factory setting

The skills and knowledge required for competent workplace performance are to be used within the scope of the person's job and authority

Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Prerequisite units

Employability Skills Information

Employability skills This unit contains employability skills

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 sanding	<p>1.1. Applicable <i>Occupational Health and Safety</i> (OHS), <i>environmental</i>, <i>legislative</i> and <i>organisational requirements</i> relevant to profile sanding products are identified and followed</p> <p>1.2. <i>Work order</i> is reviewed and checked with <i>appropriate personnel</i></p> <p>1.3. Type and quantity of <i>profiles</i> to be <i>sanded</i> is acquired from the production process</p> <p>1.4. <i>Equipment</i> is selected appropriate to work requirements and checked for operational effectiveness in line with manufacturer's recommendations</p> <p>1.5. Sanding process is planned in line with site procedures</p> <p>1.6. <i>Communication</i> with others is established and maintained in line with OHS requirements</p>
2. Sand profiles	<p>2.1. <i>Pre start-up checks</i> are carried out on equipment in line with site requirements</p> <p>2.2. Sanding profile and <i>feed rate</i> are set for optimal smoothing of product and adjusted to suit varying products</p> <p>2.3. Sanding is conducted in line with site requirements</p> <p>2.4. <i>Dust extraction</i> equipment is regularly checked and cleaned to avoid blockages</p> <p>2.5. <i>Products</i> are <i>visually assessed</i> to ensure specified outcome has been achieved</p> <p>2.6. <i>Sanding medium</i> is removed and replaced when worn</p> <p>2.7. Products with sanding defects are rejected and <i>disposed of</i> in line with site procedures and environmental requirements</p> <p>2.8. Sanding process and equipment faults are <i>recorded and reported</i> to the appropriate personnel</p>
3. Redistribute material	<p>3.1. Products are <i>regraded</i> in line with site requirements and industry standards</p> <p>3.2. Material is directed and <i>moved to storage</i> or processing operations in line with site requirements</p> <p>3.3. Sub-standard material is rejected and disposed of in line with site requirements</p> <p>3.4. Work area is cleaned in line with site requirements</p>

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level required for this unit.

Required skills

- Technical skills sufficient to use and maintain relevant tools, machinery and equipment; efficiently and safely sand profiles; effectively visually assess product quality
- Communication skills and interpersonal techniques sufficient to interact appropriately with colleagues and others in the workplace
- Literacy skills sufficient to accurately record and report workplace information, and maintain documentation
- Numeracy skills sufficient to estimate, measure and calculate time required to complete a task
- Problem solving skills sufficient to identify problems and equipment faults and demonstrate appropriate response procedures

Required knowledge

- Applicable Commonwealth, State or Territory legislation, regulations, standards, codes of practice and established safe practices relevant to the full range of processes for profile sanding products
- Environmental protection requirements, including the safe disposal of waste material and the cleaning of plant, tools and equipment
- Organisational and site standards, requirements, policies and procedures for profile sanding products
- Environmental risks and hazards
- Sanding techniques
- Products and profile types
- Methods of visual inspection
- Characteristics of timber and panels
- Distribution processes
- Established communication channels and protocols
- Problem identification and resolution strategies and common fault finding techniques
- Types of tools and equipment and procedures for their use, operation and maintenance
- Appropriate mathematical procedures for estimating and measuring, including calculating time to complete tasks

REQUIRED SKILLS AND KNOWLEDGE

- Procedures for recording and reporting workplace information

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.

Overview of assessment

A person who demonstrates competency in this unit must be able to provide evidence that they can safely and efficiently sand profiled products in line with organisational requirements

Critical aspects for assessment and evidence required to demonstrate competency in this unit

The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements of this unit and include demonstration of:

- following applicable Commonwealth, State or Territory legislative and regulatory requirements and codes of practice relevant to profile sanding products
- following organisational policies and procedures relevant to profile sanding products
- profiling sanding products in readiness for coating, despatch or for interim storage
- redistributing material on site using designated equipment

Context of and specific resources for assessment

- Competency is to be assessed in the workplace or realistically simulated workplace
- Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints
- Assessment of required knowledge, other than confirmatory questions, will usually be conducted in an off-site context
- Assessment is to follow relevant regulatory or Australian Standards requirements
- The following resources should be made available:
 - workplace location or simulated workplace
 - materials and equipment relevant to undertaking work applicable to this unit
 - specifications and work instructions

Method of assessment

- Assessment must satisfy the endorsed Assessment Guidelines of the FPI11 Training Package
- Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with

EVIDENCE GUIDE

application of required knowledge

- Assessment must be by direct observation of tasks, with questioning on required knowledge and it must also reinforce the integration of employability skills
- Assessment methods must confirm the ability to access and correctly interpret and apply the required knowledge
- Assessment may be applied under project-related conditions (real or simulated) and require evidence of process
- Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances
- Assessment may be in conjunction with assessment of other units of competency
- The assessment environment should not disadvantage the candidate
- Assessment practices should take into account any relevant language or cultural issues related to Aboriginality, gender or language backgrounds other than English
- Where the participant has a disability, reasonable adjustment may be applied during assessment
- Language and literacy demands of the assessment task should not be higher than those of the work role

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. **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.

OHS requirements:

are to be in line with applicable Commonwealth, State or Territory legislation and regulations, and organisational safety policies and procedures, and may include:

RANGE STATEMENT

- personal protective equipment and clothing
- safety equipment
- first aid equipment
- fire fighting equipment
- hazard and risk control
- fatigue management
- elimination of hazardous materials and substances
- safe forest practices including required actions relating to forest fire
- manual handling including shifting, lifting and carrying

Environmental requirements
may include:

- legislation
- organisational policies and procedures
- workplace practices

Legislative requirements:

are to be in line with applicable Commonwealth, State or Territory legislation, regulations, certification requirements and codes of practice and may include:

- award and enterprise agreements
- industrial relations
- Australian Standards
- confidentiality and privacy
- OHS
- the environment
- equal opportunity
- anti-discrimination
- relevant industry codes of practice
- duty of care

Organisational requirements
may include:

- legal
- organisational and site guidelines
- policies and procedures relating to own role and responsibility
- quality assurance
- procedural manuals
- quality and continuous improvement processes and standards
- OHS, emergency and evacuation procedures
- ethical standards
- recording and reporting requirements
- equipment use and maintenance and storage

RANGE STATEMENT

- Work order** is to include:
- requirements
 - environmental management requirements (waste minimisation and disposal, recycling and re-use guidelines)
 - instructions for profile sanding of timber or panels
- and may include:
- species
 - colour
 - type
 - width
 - length
 - thickness
 - quantity
 - instructions for the environmental monitoring of work and procedures
 - environmental care requirements relevant to the work
- Appropriate personnel** may include:
- supervisors
 - suppliers
 - clients
 - colleagues
 - managers
- Profiles** are the shapes which have been moulded onto timber or cut in panels which the sander in turn must match
- Sanding** is the process of finishing or smoothing timber or panels and removing any machine marks or imperfections to an acceptable standard of smoothness or surface texture, which will allow coating
- Equipment** is to include:
- procedures for equipment lock-out, ie protecting operators and co-workers from accidental injury by isolating the machine from the power source
- Communication** may include:
- verbal and non-verbal language
 - constructive feedback
 - active listening
 - questioning to clarify and confirm understanding

RANGE STATEMENT

- use of positive, confident and cooperative language
- use of language and concepts appropriate to individual social and cultural differences
- control of tone of voice
- body language

Pre start-up checks

are conducted to ensure:

- machine has been set-up correctly
- systems are performing accurately
- machinery is operating to optimum performance

Feed rate is to include:

- the rate of speed the timber or panel is passed through the sanding machine
- the impact on equipment
- the finish
- the production output

Dust extraction is to include:

- machine specific dust extraction systems with collection bags
- hopper based extraction systems which link all machines to the one extractor source through a series of connected pipes

Products may include:

- solid timber or panel moulded strips
- building components
- furniture components
- bench tops
- shaped panels
- any articles with moulded or shaped edges/surfaces

Visually assessed is to include:

- thickness
- finish quality
- sanding faults

Sanding medium may include:

- sandpaper
- emery cloth
- sanding belts
- other enterprise selected medium

Disposing of may include:

- recycling products with sanding defects
- re-using products with sanding defects

Records and reports may include:

- sanding requirements
- product type
- size

RANGE STATEMENT

- inspection
- grading and labelling outcomes
- storage locations
- quality outcomes
- hazards
- incidents
- equipment malfunctions

and may be:

- manual
- using a computer-based system or other appropriate organisational communication system

Regrading

is the process of visually inspecting timber or panels to re-classify quality and use after sanding has taken effect

Movement of material may include:

the use of:

- conveyor belt systems
- track systems
- lifting equipment
- lifting equipment such as:
 - fork lifts
 - slings
 - trolley jacks
 - gantry cranes
 - loaders
- assistance with lifting such as:
 - the involvement of two or more personnel to lift materials manually or to guide the movement of mechanical equipment

Storage may include:

the use of:

- storage racks
- storage bays
- bins
- stacks
- pallet boxes
- modularised storage components
- temporary stacking bays (stand, frame or ground)

RANGE STATEMENT

and may be divided into:

- standard product classification
- product designation
- size
- dimension
- stack number
- weight
- grade
- shelf life
- stock rotation position

Unit Sector(s)

Unit sector No sector assigned

Co-requisite units

Co-requisite units

Competency field

Competency field Wood Panel Products