



Australian Government

FWPSAW2205 Assemble materials using nail plates

Release: 1

FWPSAW2205 Assemble materials using nail plates

Modification History

Release	Comment
1	Replaces equivalent unit FPISAW2205B Assemble materials using nail plates, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to prepare and assemble materials with nail plates; and to stack, strap and despatch them in readiness for transport to a construction site. Work is completed in a forest products factory setting.

The unit applies to Production Worker, Sawmill Worker, Manufacturing Assistant.

No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Sawmilling and Processing

Elements and Performance Criteria

<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Prepare for assembly	1.1 Review construction plans and work order and where required clarify with appropriate personnel. 1.2 Identify and obtain type and quantity of material and nail plates to be assembled. 1.3 Select appropriate tools and equipment and check for operational effectiveness in line with manufacturer's recommendations. 1.4 Identify and prepare set-up jigs required for construction.

2. Assemble materials	2.1 Select timber components from pre-cut material in line with cutting list. 2.2 Reject material with defects and dispose of in line with environmental protection practices. 2.3 Use equipment in line with organisational safety procedures, manufacturer's instructions environmental protection practices. 2.4 Identify allowable number and position of joins from construction plan. 2.5 Position and clamp components in jigs ready for joining with allowable faults, joins and grain in line with construction standards and grading rules. 2.6 Staple components to maintain temporary alignment during assembly.
3. Install nail plates	3.1 Position material and nail plate press over joints. 3.2 Position nail plates on joints and install in line with construction plan. 3.3 Repair or dispose of substandard and damaged nail plates in line with environmental protection practices. 3.4 Correct assembly faults in line with organisational procedures 3.5 Identify routine processing and equipment faults and resolve or report to appropriate personnel.
4. Prepare material for despatch and report outcomes	4.1 Check finished material for quality and label in line with work order. 4.2 Remove components from jigs and safely stack in designated location. 4.3 Strap, pack and label finished material ready for transportation. 4.4 Avoid wastage of strapping and packaging materials and maximise use of recycled materials. 4.5 Complete production and quality records and report in line with organisational procedures.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:	interpret production data from construction plans and work orders to:
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	- count quantities of materials and nail plates and select appropriate sizes - complete routine calculations for component layouts - accurately measure lengths and angles.
Oral communication skills to:	- ask open and closed probe questions and actively listen to clarify contents of construction plans and work orders - make accurate verbal reports on processing and equipment faults.
Reading skills to:	- interpret: - workplace health and safety and other organisational procedures - construction plans and work orders - manufacturers' instructions.
Writing skills to:	- produce basic clear labels for product identification and transportation - complete accurate basic records for production outcomes, equipment faults and maintenance requirements.
Planning and organising skills to:	efficiently and logically sequence the stages of preparation and production using work order and construction plan to guide activities.
Problem-solving skills to:	- identify and dispose of defective materials - recognise faulty equipment and resolve by reporting or rectifying.
Technology skills to:	select and use appropriate machinery, tools and personal protective equipment used for assembling materials.

Range of Conditions

Not Applicable

Unit Mapping Information

FPISAW2205B Assemble materials using nail plates

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPSAW2205 Assemble materials using nail plates

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1	Replaces equivalent unit FPISAW2205B Assemble materials using nail plates, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including Required Skills and Knowledge, Evidence Guide and Range Statement

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:

- follow organisational policies and procedures relevant to assembling materials using nail plates
- assemble materials using nail plates in line with a work order and construction plans
- strap, pack and label bundles of completed products

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- types of tools and equipment used for assembling products; their purpose, features and operation:
 - measuring equipment
 - assembly jigs
 - nail plate presses
 - staple guns
 - nail guns
 - compressor or compressed air supply
 - marking equipment
 - strapping equipment
- characteristics of timber

- types of materials for assembling with nail plates and their purpose
- assembly sequences
- compliantly and construction standards
- typical assembly faults triggering correction to ensure product quality:
 - incorrectly positioned joints
 - timber splits from nailing
 - incorrectly positioned nail plates
- industry standard cross-sections, lengths and tolerances
- environmental protection practices for forest products factory settings:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber
- typical timber defects and how these affect ability to produce a quality finished product:
 - warp
 - wane
 - cupping
 - shakes
 - insect defects
 - knots
 - resin pockets
- storage layout and categories for stacking finished materials
- organisational procedures specific to assembling materials using nail plates:
 - workplace health and safety with particular emphasis on equipment lock out
 - use of equipment
 - communication reporting lines
 - recording and reporting production outcomes and equipment faults.
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Assessment Conditions

The following resources must be made available:

- tools and equipment used to assemble products:
 - measuring equipment
 - assembly jigs
 - nail plate presses
 - staple guns
 - nail guns
 - compressor or compressed air supply
 - marking equipment
 - strapping equipment

- assembly hardware:
 - nail plates
 - nail gun nails
 - staples
- pre-cut sections of timber

personal protective equipment suitable for assembling materials

- manufacturers' instructions for equipment use
- work order and construction plan with specifications for assembling materials
- template documents for recording production outcomes and equipment faults
- organisational procedures for assembling materials using nail plates.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.

Links

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