



Australian Government

FWPSAW2212 Assemble materials using nail plates

Release: 1

FWPSAW2212 Assemble materials using nail plates

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 6.0.

Application

This unit of competency describes the skills and knowledge required to prepare and assemble materials using nail plates. It includes stacking, strapping and despatching products in readiness for transport to a construction site.

The unit applies to production workers, sawmill workers and manufacturing assistants who undertake specified activities under the direction of more experienced workers.

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

Pre-requisite Unit

Nil

Unit Sector

Sawmilling and Processing (SAW)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for assembly	1.1 Determine job requirements from production plan or work order and seek clarification from appropriate person where required 1.2 Identify and obtain type and quantity of material and nail plates in preparation for assembling 1.3 Confirm safety requirements for assembling materials using nail plates according to workplace safety procedures 1.4 Select, fit and use personal protective equipment (PPE)

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Select appropriate tools and equipment, and check for operational effectiveness according to manufacturer recommendations
2. Assemble materials	2.1 Select pre-cut timber components from material cutting list 2.2 Reject material with defects and dispose of according to environmental requirements 2.3 Use equipment following workplace safety and environmental requirements and manufacturer instructions 2.4 Identify allowable number and position of joins from production plan 2.5 Position and clamp components ready for joining with allowable faults, joins and grain according to construction standards and grading rules 2.6 Staple components to maintain temporary alignment during assembly
3. Install nail plates	3.1 Locate nail plates, position nail plate press over joints and install nail plates according to production plan 3.2 Repair or dispose of substandard and damaged nail plates according to workplace and environmental requirements 3.3 Correct assembly faults according to workplace procedures 3.4 Identify and resolve routine processing and equipment faults, and report to appropriate person
4. Prepare material for despatch and report outcomes	4.1 Check finished material for quality, and label according to work order 4.2 Remove components from machinery 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 Clean work area and recycle, reuse or dispose of waste according to workplace and environmental requirements 4.6 Complete production and quality records and report according to workplace procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Writing	- Produce labels that accurately identify products in production plans and work order ready for transportation - Complete workplace records accurately and legibly using technical and industry specific vocabulary
Oral communication	- Listen actively to clarify contents of production plans and work orders - Report processing and equipment faults accurately and unambiguously using industry terminology
Numeracy	Use addition and multiplication to calculate quantity of individual and total components and nail plates

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPSAW2212 Assemble materials using nail plates	FWPSAW2205 Assemble materials using nail plates	Application and Performance Criteria reworded Updated Foundation Skills and Assessment Requirements	Equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPSAW2212 Assemble materials using nail plates

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has assembled materials using nail plates for two different work orders or production plans, and has:

- determined the quality of materials and discarded non-compliant materials
- safely and correctly used machinery, equipment and nail plate press to assemble materials
- followed workplace policies and procedures relevant to assembling materials using nail plates
- strapped, packed and accurately labelled completed bundles in preparation for transport.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- production plans, work orders and manufacturer specifications for using nail plates
- workplace safety and environmental policies and procedures relating to material assembly with nail plates
- relevant standards and specifications for timber assembly using nail plates
- the purpose, features and operation of various types of tools and equipment used for assembling products:
 - measuring equipment
 - assembly machinery
 - nail plate presses
 - staple guns
 - nail guns
 - compressor or compressed air supply
 - marking equipment
 - strapping equipment

- methods, processes and techniques of:
 - assembling materials using nail plates
 - layout, storing and stacking of finished materials
 - recording and reporting production outcomes and equipment faults
 - workplace communication
- assembly sequences
- 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 requirements for disposing of, recycling and reusing timber
- characteristics of timbers and typical timber defects which impact nail plate usage:
 - warp
 - wane
 - cupping
 - shakes
 - insect defects
 - knots
 - resin pockets
- workplace safety requirements relevant to assembling material using nail plates:
 - hazard identification and control measures
 - use of equipment and equipment lock-out
 - personal protective equipment (PPE)
 - hazardous manual tasks.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a manufacturing or processing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - tools, equipment and machinery to assemble materials
 - materials and nail plates to assemble products
 - PPE
- specifications:
 - access to workplace safety and environmental policies and procedures applicable to assembling materials using nail plates
 - access to nail plate manufacturer specifications and instructions

- access to work orders or production plans to assemble materials using nail plates
- relationships:
 - person to confirm work order and report production and equipment issues.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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