

Modification history

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

FWPSAW2XXX	Assemble materials using nail plates
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. Work is completed in a forest products factory setting. The unit applies to production workers, sawmill workers and manufacturing assistants. No licensing, legislative or certification requirements apply to this unit at the time of publication.
Prerequisite Unit	Nil
Unit Sector	Sawmilling and Processing (SAW)

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 Read and interpret construction plans and work order to determine job requirements and where required, clarify with appropriate person 1.2 Identify and obtain type and quantity of material and nail plates in preparation for assembling 1.3 Select, fit and use personal protective equipment (PPE) 1.4 Select appropriate tools and equipment and check for operational effectiveness in line with manufacturer's recommendations 1.5 Identify and prepare set-up jigs required for construction
2. Assemble materials	2.1 Select timber components from pre-cut material in accordance with cutting list 2.2 Reject material with defects and dispose of according to environmental requirements 2.3 Use equipment in accordance with workplace safety and environmental requirements and manufacturer's instructions 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 according to construction plan 3.3 Repair or dispose of substandard and damaged nail plates in accordance with workplace and environmental requirements 3.4 Correct assembly faults according to workplace procedures 3.5 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 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 Clean work area and recycle, reuse or dispose of waste following workplace and environmental requirements 4.6 Complete production and quality records and report according to workplace procedures

Foundation Skills	
<i>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.</i>	
Skill	Description
Writing	<ul style="list-style-type: none"> Produce labels that accurately identification products in construction plans and work order ready for transportation Complete workplace records accurately and legibly using correct technical and industry specific vocabulary
Oral communication	<ul style="list-style-type: none"> Ask open and closed probe questions and actively listen to clarify contents of construction plans and work orders Accurately report processing and equipment faults unambiguously using industry terminology
Numeracy	<ul style="list-style-type: none"> Calculate number of individual members and nail plates for each and estimate a total quantity of materials

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
FWPSAW2XXX Assemble materials using nail plates	FWPSAW2205 Assemble materials using nail plates	Application and Performance Criteria – grammar changes Foundation Skills – maintained and updated writing, Oral Communication and Numeracy Assessment Requirements - updated	Equivalent unit

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47
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TITLE	Assessment requirements for FWPSAW2XXX Assemble materials using nail plates
Performance Evidence	
<p>An individual demonstrating competency in this unit must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has assembled materials using nail plates for two different projects.</p> <p>In doing this, the candidate has:</p> <ul style="list-style-type: none"> • determined the quality of materials and discarded non-compliant materials • safely and correctly used machinery, equipment and nail plate press to assemble materials • followed organisational policies and procedures relevant to assembling materials using nail plates • strapped, packed and accurately labelled completed bundles in preparation for transport. 	

Knowledge Evidence	
<p>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:</p> <ul style="list-style-type: none"> • construction plans, work orders and manufacturer specifications • environmental requirements • organisational policies and procedures and relevant industry standards • the purpose, features and operation of various types of tools and equipment used for assembling products: <ul style="list-style-type: none"> • measuring equipment • assembly jigs • nail plate presses • staple guns • nail guns • compressor or compressed air supply • marking equipment • strapping equipment • methods, processes and techniques of: <ul style="list-style-type: none"> • assembling materials using nail plates • layout, storing and stacking of finished materials • recording and reporting production outcomes and equipment faults • workplace communication • characteristics of timber • assembly sequences • typical assembly faults triggering correction to ensure product quality: <ul style="list-style-type: none"> • 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 • typical timber defects and how they affect a quality finish: <ul style="list-style-type: none"> • warp • wane • cupping • shakes • insect defects • knots • resin pockets • workplace safety: <ul style="list-style-type: none"> • hazard identification and control measures • use of equipment and equipment lock out • personal protective equipment (PPE) 	

Knowledge Evidence

Assessment Conditions
<p>Assessment of the skills in this unit of competency must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • skills must be demonstrated in the workplace or an environment that accurately represents workplace conditions • resources, equipment and materials: <ul style="list-style-type: none"> • construction plans and work order • tools, equipment and machinery to assemble materials • materials and nail plates to assemble products • PPE • specifications: <ul style="list-style-type: none"> • workplace safety and environmental documentation • manufacturer’s specifications and instructions • organisational policies and procedures • relationships: <ul style="list-style-type: none"> • person to confirm work order and report production and equipment issues. <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>

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