



Australian Government

FWPCOT3241 Assemble timber wall frames

Release: 2

FWPCOT3241 Assemble timber wall frames

Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 3.0.
Release 1	This version released with FWP Forest and Wood Products Training Package Version 2.0.

Application

This unit of competency describes the outcomes required to assemble construction-ready timber wall frame sections and to strap and pack them in readiness for transport to a construction site. Work is completed in a timber and wood products production setting.

The unit applies to Press operator, Timber manufactured products technician, Jig setter, Machine operator, saw operator.

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

Pre-requisite Unit

Nil

Unit Sector

Common Technical

Elements and Performance Criteria

Element	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 work order and construction plans and where required check with appropriate personnel. 1.2 Identify and obtain type and quantity of assembly material and hardware. 1.3 Select appropriate personal protective and other equipment and

	check for operational effectiveness. 1.4 Identify and prepare setup jigs required for construction.
2. Set up components	2.1 Select timber components from pre-cut material in line with cutting list. 2.2 Reject material with defects and dispose of these in line with environmental protection practices. 2.3 Use equipment in line with organisational safety procedures, manufacturer's instructions and environmental protection practices. 2.4 Position and clamp components in jigs ready for joining with allowable faults, joins and grain in line with construction standards and grading rules. 2.5 Nail components to maintain temporary alignment during assembly.
3. Install assembly hardware	3.1 Position and install hardware on joints in line with construction plan. 3.2 Nail or staple temporary bracing to product in line with construction standards. 3.3 Correct assembly faults in line with organisational procedures.
4. Prepare products for despatch and report	4.1 Check finished product 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, label and pre-sling finished products ready for transportation. 4.4 Avoid wastage of strapping and packaging materials and maximise use of recycled materials. 4.5 Record and report production outcomes and equipment faults to appropriate personnel.

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: - count quantities of materials and hardware components and select appropriate sizes
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	- complete routine calculations for component layouts - measure lengths and angles to construction plan specifications.
Oral communication skills to:	ask open and closed probe questions and actively listen to clarify contents of construction plans and work orders.
Reading skills to:	- interpret detailed: - 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 and equipment faults.
Planning and organising skills to:	efficiently and logically sequence the stages of preparation and production using work order and construction plan to guide activities.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3241 Assemble timber wall frames Release 2	FWPCOT3241 Assemble timber wall frames Release 1	Minor typographical errors corrected.	Equivalent unit

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 FWPCOT3241 Assemble timber wall frames

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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:

- assemble timber wall frames in line with a work order, construction plans, construction standards and engineering specifications including
 - studs
 - top and bottom plates
 - lintels
 - trimmers
 - nogging
 - bracing
- strap, pack, label and pre-sling completed products ready for transportation.

Knowledge Evidence

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

- quality requirements, at a basic level of understanding, of national building codes and standards
- environmental protection practices for assembling timber wall frames:
 - reducing water and energy use
 - disposing of, recycling and reusing timber and other waste
- typical timber defects and how these affect ability to produce a quality finished product:
 - warp
 - wane

- cupping
- shakes
- insect defects
- knots
- resin pockets
- typical flow of material supply in and out of the wall frame assembly area
- typical assembly sequences and range of techniques used to assemble timber wall frames
- key components of wall frames and their purpose:
 - studs
 - top and bottom plates
 - lintels
 - trimmers
 - nogging
 - bracing
- range of industry standard lengths, cross sections and tolerances and applicable terminology
- typical assembly faults triggering correction to ensure product quality:
 - incorrectly positioned joints
 - timber splits from nailing
 - incorrectly positioned hardware
- purpose, features and operation of equipment used to assemble timber wall frames:
 - measuring equipment
 - assembly jigs
 - circular saws
 - docking saws
 - drills
 - nail plate presses
 - staple guns
 - nail guns
 - compressor or compressed air supply
 - marking equipment
 - strapping equipment
- purpose, features and use of assembly componentry
- organisational procedures specific to assembling timber wall frames:
 - workplace health and safety with particular emphasis on on equipment lock out and use of personal protective equipment
 - communication reporting lines
 - maintaining construction standards
 - recording and reporting production outcomes and equipment faults
 - labelling products for identification and transportation.

Assessment Conditions

The following resources must be made available:

- tools and equipment used to assemble timber wall frames:
 - measuring equipment
 - assembly jigs
 - circular saws
 - docking saws
 - drills
 - nail plate presses
 - staple guns
 - nail guns
 - compressor or compressed air supply
 - marking equipment
 - strapping equipment
- assembly hardware:
 - nailing plates
 - gang nails
 - nail gun nails
 - staples
- slinging devices
- personal protective equipment suitable for assembling timber wall frames
- pre-cut sections of timber
- consumable strapping, packaging and labelling materials
- manufacturers' instructions for equipment use
- work order and construction plan with specifications for assembling timber wall frames
- template documents for recording production outcomes and equipment faults
- organisational procedures for assembling timber wall frames.

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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