



Australian Government

FWPTMM5210 Verify compliance and conformance of prefabricated timber building systems during manufacture

Release: 1

FWPTMM5210 Verify compliance and conformance of prefabricated timber building systems during manufacture

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 4.0.

Application

This unit of competency describes the skills and knowledge required to verify physical performance and compliance liability of panelised or modular prefabricated timber building systems and components during off-site manufacturing to ensure that delivered product matches the design specifications and regulatory obligations.

The unit applies to individuals who work as compliance officers, supervisors or managers in a prefabricated timber building systems manufacturing plant. Such individuals demonstrate deep knowledge in a specific technical area and analyse, design and communicate solutions to sometimes complex problems.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

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

Pre-requisite Unit

Nil

Unit Sector

Timber Manufactured Products

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 to verify	1.1 Obtain and confirm production schedule, design documentation,

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
prefabricated timber building systems and components	plans, requirements, workplace health and safety requirements and established procedures relevant to the off-site manufacturing order 1.2 Identify certification and compliance requirements for prefabricated timber building system, components, materials and in-built services from design specifications or appropriate codes and standards 1.3 Identify tolerances for material quality, physical dimensions and service connections from design specifications 1.4 Prioritise and sequence verification work according to production schedules for completion within established timeframes 1.5 Consult appropriate personnel, testers and certifiers to coordinate verification work efficiently
2. Conduct verification for compliance and conformance	2.1 Verify that connections, structural components and physical dimensions of timber framing structure are appropriate for grade, thickness, tolerances and choice of materials according to minimum specified design requirements before installation services 2.2 Verify that provisions have been made for components including hydraulics, electrical and heating, ventilation, air conditioning mechanical services and plumbing 2.3 Ensure that partition/walls or floor elements are assembled according to design specifications, local codes and standards for minimising or eliminating continuity issues in the final, installed prefabricated timber building system 2.4 Verify regulated components including fire-rated walls or fire protection systems for conformance with performance requirements of relevant codes, standards and design specifications, and ensure that damage is minimised within the manufacturing environment 2.5 Ensure that any variations of material properties or system component decided during the off-site manufacture meet performance, design specification, relevant codes and standards 2.6 Ensure that off-site installation of services conform to the appropriate local standards and are approved before delivery to the construction site 2.7 Verify completed prefabricated timber building system to ensure that delivered product is safe for manual handling and meets design specifications and regulatory requirements
3. Report verification	3.1 Identify and report non-compliance and non-conformance issues

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
findings	according to established procedures 3.2 Make recommendations for rectifying compliance and conformance issues according to established procedures 3.3 Document completion of verification work according to established 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
Reading	Read workplace documents that range in complexity
Navigate the world of work	- Apply knowledge of regulations, codes and standards relevant to compliance of prefabricated timber building systems - Monitor adherence to legal and industry standards and responsibilities
Interact with others	- Understand what to communicate, with whom and how in routine work situations - Provide relevant information to others as required
Get the work done	- Take responsibility for planning and organising own workload - Consider how to link own work with the work of others

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPTMM5210 Verify compliance and conformance of prefabricated timber building	Not applicable	New unit	No equivalent unit

systems during manufacture			
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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 FWPTMM5210 Verify compliance and conformance of prefabricated timber building systems during manufacture

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Performance Evidence

An individual demonstrating competency in this unit must satisfy all of the elements and performance criteria of this unit. There must be evidence that, on at least three occasions, the individual has verified compliance and conformance of prefabricated timber building systems during manufacture for one or more of the following panelised or modular prefabricated timber building system types:

- cross-laminated timber floor and wall systems
- post and beam systems (Glulam, laminated veneer lumber)
- panelised floor cassette systems
- panelised wall systems (including cladding, insulation, windows or doors)
- panelised and pre-finished wall systems (inclining above, electrical, plumbing, mechanical or lining)
- pre-finished and fully finished timber-based modules

In doing the above, the individual has:

- implemented workplace health and safety procedures and practices during the compliance and conformance verification operation
- prioritised verification work according to production schedules
- verified relevant documentation and conducted audits correctly and efficiently against design specifications, local codes and standards for any of the following:
 - connections, structural components and physical dimensions of timber framing structure regarding grade, thickness, tolerances and choice of materials
 - services equipment including hydraulic, electrical and heating, ventilation, and air conditioning (HVAC) mechanical
 - partition/walls or floor elements of the structure
 - fire-rated walls or fire protection systems
 - variations of material properties or system component from design specifications
 - off-site installation of services
 - completed timber building system

- identified non-conformant or non-compliant components of timber building systems
- recommended appropriate corrective actions
- reported legibly and accurately.

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:

- workplace health and safety procedures and practices related to the work activity
- provisions for components including hydraulics, electrical and HVAC mechanical services and plumbing
- verification procedures for product compliance and conformance in the manufacture of prefabricated timber building systems
- elements of valid and efficient manufacturing inspections, verifications and certification processes as outlined in national and international standards
- methods of verifying product quality (actual versus claimed quality) and compliance with the National Construction Code in regards to Performance Requirements
- certification requirements for thermal, acoustic and fire performance of partition and floor elements
- fire rating testing techniques
- certification requirements for hydraulics, electrical and HVAC mechanical services according to standards and manufacturer requirements
- hazards and risks associated with manual handling of prefabricated timber building systems that generally arise from off-site manufacture, including:
 - cut metal edges
 - exposed screw tips and nails
 - abrasion of insulation materials resting on metal edges
 - pinch points in connections
 - surfaces that can retain rainwater
- inspection reports and sign-off procedures as accepted by the industry or established within the workplace.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - computers, keyboards, printers and software used to produce and maintain compliance system records and reports
- specifications:
 - access to industry-specific compliance standards and design documentation

- access to production schedules
- access to comprehensive real or simulated certificates, test documentation and product/manufacture specifications
- access to template inspection reports
- access to workplace policies and procedures for documenting and signing off inspections of product compliance and conformance.

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