



**Australian Government**

# **Assessment Requirements for FWPTMM3209 Install prefabricated timber building systems on-site**

**Release: 1**

# Assessment Requirements for FWPTMM3209 Install prefabricated timber building systems on-site

## Modification History

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

## 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 installed prefabricated timber building systems on-site, for two or more panelised or modular prefabricated timber building system types, including:

- 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, mechanical, plumbing or lining)
- pre-finished and fully finished timber-based modules.

In doing the above, the individual has:

- complied with health and safety requirements and regulations applicable to workplace operations
- identified design requirements and installation sequence of prefabricated timber building systems
- identified and selected correct fittings, connections, tie-downs and braces for the installation of prefabricated timber building systems
- checked suitability of building structure, slab or floor area for the installation of prefabricated timber building systems
- applied workplace quality procedures and processes in the context of installing prefabricated timber building systems
- selected and used processes, tools and equipment for measuring, marking out, levelling and securing prefabricated timber building systems into place
- placed prefabricated timber building system safely, efficiently and to required tolerances and installed connectors to required specifications
- checked that walls and corners are accurately levelled, plumbed and square
- identified typical faults and problems and rectified faults
- communicated efficiently with others, exchanging feedback and timeline reviews.

## 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:

- relevant current health and safety legislative obligations and workplace procedures as described in industry health and safety guides and site workplace health and safety plans
- hazards associated with the construction work and as identified through safe work method statements (SWMS), risk assessments, manufacturer technical information, regulations and industry health and safety guides, including but not limited to:
  - building systems and components
  - methods of work
  - waste material
  - risk of fire
  - power lines
  - cabling and plumbing
  - drains covered correctly
  - access and egress
- safety measures and equipment:
  - fire prevention and emergency procedures
  - evacuation procedure
  - signs and barricades
  - personal protective equipment (PPE)
  - fall prevention and fall arrest equipment
  - other methods for reducing the risk from fire and other hazards on a construction site as defined in the National Construction Code and site safety plan
- types of task-specific documents, their source, information included and how they are read and interpreted with reference to:
  - drawings
  - design specifications
  - on-site workflow, schedules and targets
  - method statements
  - risk assessments
  - progress charts and timetables
  - manufacturer information
  - product certifications
  - building regulations
- basic design and offsite manufacture processes for prefabricated timber building systems for recognising problems that arise from missing information, damaged or faulty prefabricated timber building systems and understanding methods to resolve them
- installation design specifications for different prefabricated timber building systems with reference to:

- installation sequence
- lifting equipment, support connections and techniques
- bracing techniques
- technical properties and specific requirements of materials, elements, components, insulations and connections
- mechanical fixings, tie-downs and braces, connection strengths and installation tolerances
- building checks before prefabricated timber building system installation and the importance of checking
- testing and checking of prefabricated timber building systems for quality assurance:
  - required tests for different prefabricated timber building system and methods to undertake them
  - test sampling and frequency of testing within a managed process
- specialised tools and equipment for installation and fixing of different prefabricated timber building systems and methods of operation
- methods for measuring and calculating the quantity, length, area, centre of gravity and mass of different prefabricated timber building systems for lifting and installation operations
- techniques for accurate placement of prefabricated timber building systems before the full installation
- problems or faults related to prefabricated timber systems, including materials, components, connections or insulations that arise from on-site installation and impact on structural, fire and acoustic performance of the system
- critical performance metrics used in the on-site installation operations of prefabricated timber building systems regarding quality, cycle time, productivity and inventory
- methods for reporting:
  - circumstances that affect the work cycle time
  - quality checks
  - product changes or variations during installation
- maintenance and servicing requirements for tools and equipment as outlined in workplace procedures or manufacturer manual
- waste management procedures regarding safe disposal and recycling.

## Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated in a construction site or environment that accurately represents workplace conditions
- resources, equipment and materials:
  - specialised tools and equipment for installation and fixing of prefabricated timber building systems
  - prefabricated timber building systems, components, sections and fittings

- PPE, signs and barricades, fall prevention and fall arrest equipment used in building construction operations
- specifications:
  - access to workplace health and safety policies, SWMS, emergency procedures, fire safety plans, drawings, design specifications, on-site workflow, schedules and targets, work method statements, risk assessments, manufacturer information and operating instructions for specialised tools and equipment, product certifications and building regulations
- relationships:
  - team member(s) including licenced crane operator and licenced dogger to lift prefabricated timber building systems
- timeframes:
  - according to time specified in job sheet.

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

## Links

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