

Modification history

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

FWPXXX0000	Install prefabricated timber building systems on-site
Application	<p>This unit of competency describes the skills and knowledge required to position and connect panelised or modular prefabricated timber building systems safely and correctly during on-site installation.</p> <p>The unit applies to individuals who work in the occupational area of installing prefabricated timber building structures. These include construction operators, carpenters or joiners and site supervisors. Operators generally work under broad or limited direction to complete routine activities related to own work and take responsibility for their work. 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.</p> <p>This unit does not cover or replace trade skills required in construction operations but is to be used in conjunction with construction trade qualifications.</p> <p>No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	[Sector] ([SEC])

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. Apply workplace health and safety during on-site installation	1.1 Identify and apply site health and safety requirements, fire prevention and emergency procedures in line with operational requirements and health and safety legislative requirements 1.2 Select and use personal protective equipment (PPE) in line with operational and workplace health and safety requirements 1.3 Inspect worksite conditions, check hazards and report as required, including accidents, incidents or near misses, in line with operational requirements and health and safety legislative requirements to maintain a safe workplace
2. Plan and prepare for installation work	2.1 Obtain, confirm and read organisational procedures, drawings, specifications, schedules, manufacturer information and other information relevant to the work 2.2 Confirm installation timeframe and sequencing requirements for prefabricated timber building systems with relevant stakeholders or personnel to meet design specifications and on-site work schedules 2.3 Identify type, location and quantity requirements for fixings, connections and bracing from drawings and design specifications 2.4 Check building structure, slab or floor area and report non-conformance to appropriate personnel or in line with operational requirements 2.5 Select tools, auxiliary materials and equipment for the installation of prefabricated timber building systems as required, and set-up equipment to meet operational requirements 2.6 Maintain appropriate ongoing communications and briefings with key stakeholders, including feedback and timeline reviews, for the duration of the installation

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
3. Check prefabricated timber building systems logistics and storage on-site	3.1 Ensure prefabricated timber building systems are delivered on-site in-line with the phase of the construction project 3.2 Ensure prefabricated timber building systems are stored as close as practically possible to the construction site when storage is required, and there is no risk of damage by weather (moisture), traffic or general construction 3.3 Check prefabricated timber building systems, connections and support points for quantity, quality and tolerance compliance and conformance as well as damage upon delivery and report issues to the appropriate personnel or in line with operational requirements
4. Install prefabricated timber building systems	4.1 Use tools and equipment safely and correctly in line with operational requirements and manufacturer specifications to measure, mark out, level, finish and secure prefabricated timber building systems in line with specifications 4.2 Assist crane or dogger operators to lift prefabricated timber building systems in the sequential order and apply accurate placement and connection techniques to the required tolerances and specifications 4.3 Check corners and walls to be accurately levelled, plumbed and square to meet specifications and operational requirements 4.4 Check prefabricated timber building systems after installation and apply sealants as required to ensure compliance with fire, waterproofing and acoustic requirements and with design specifications 4.5 Protect prefabricated timber building systems from damage during on-site installation work and other work activities, occupations and adverse weather conditions
5. Complete installation	5.1 Complete installation within the required timeframe and in line with on-site work schedules 5.2 Maintain and store hand and power tools, equipment and machinery in line with operational requirements 5.3 Keep work area and access areas free of debris and waste material in line with operational requirements 5.4 Record any quality checks and changes or variations applied to a prefabricated timber system during the on-site installation work, in line with operational requirements

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
[Skill]	<ul style="list-style-type: none"> • [Style to be applied is SI Bullet List 1 • Use sentence case (i.e. commence with upper case) for each bullet point but do not put a full stop at the end • See <i>Guidelines</i> for the skills to be described, the order in which to list them and hints on writing descriptions
[Skill]	<ul style="list-style-type: none"> • SI Bullet List 1 • SI Bullet List 1
[Style to be applied in left column is SI Text[<ul style="list-style-type: none"> • SI Bullet List 1 • SI Bullet List 1]

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
FWPXXX0000 Install prefabricated timber building systems on-site	Not applicable	New unit	Not applicable

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

TITLE	Assessment requirements for [Unit code and title in sentence case]
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has coordinated and installed at least one prefabricated timber building system. In doing the above, the individual has:</p> <ul style="list-style-type: none"> • complied with safety requirements and health and safety regulations applicable to workplace operations • identified design required for installation of timber building system and installation sequence • identified and selected fittings, connections, tie-downs and braces to match locations in building systems • checked suitability of building structure, slab or floor area to receive installation of timber building system • applied organisational quality procedures and processes in the context of installing timber building system • selected and used processes, tools and equipment to measure, mark out, level and secure timber building system into place • placed timber building system safely, efficiently and correctly to the required tolerances and installed connectors to the required specifications • checked that walls and corners are accurately levelled, plumbed and square and structurally and fire safety • identified typical faults and problems and action required to rectify them • communicated efficiently with others to exchange feedback and timeline reviews, protect timber building systems from damage and ensure safe and effective workplace operations. 	
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"> • relevant, current health and safety legislative obligations and organisational procedures as outlined in industry health and safety guides and site workplace health and safety plans • hazards associated with the construction work and as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides, including but not limited to: <ul style="list-style-type: none"> • building systems and components • methods of work • waste material • risk of fire • power lines • cabling and plumbing • drains covered correctly • access and regress • adequate space for working safely with large building • fire prevention, emergency procedures, evacuation and other mitigation methods for reducing the risk from fire on a construction site as defined in the National Construction Code (NCC) and site fire safety plan • documents essential for the work to be carried out, their source, information included and how they are read and interpreted • installation sequence for prefabricated timber building systems associated with a project, as outlined in design specifications • types of mechanical fixings, tie-downs and braces for different prefabricated timber systems and understanding of the connection strengths between them and the installation tolerances • common building checks before the installation of different prefabricated timber building systems is conducted and the importance of checking • basic design and offsite manufacture of prefabricated timber building systems to recognise problems during quality checks and methods to solve them 	

Knowledge Evidence
<ul style="list-style-type: none"> • technical properties and specific requirements of materials, elements, components, insulations, connections for different prefabricated timber building systems • quality assurance testing and checking, including what tests on which prefabricated timber building system and how to undertake them; how many systems to sample and the frequency of testing within a managed process • acceptable tolerances for different materials, wood structural components, fixings and different prefabricated timber building systems • common problems arising from missing information, damaged or faulty prefabricated timber building systems and/or methods of work • methods or organisational procedures for reporting circumstances which will affect the work cycle time • specialised tools and equipment associated with installation and fixing of different prefabricated timber building systems • methods of operating tools and equipment for placing and fixing different prefabricated timber building systems • lifting equipment, support connections and techniques for different prefabricated timber systems as outlined in design specifications • techniques for accurate placement of prefabricated timber building systems before full installation • measuring methods for accurate calculation of quantity, length, area, centre of gravity and mass associated with lifting and installation techniques for different prefabricated timber building systems • bracing techniques for different prefabricated timber systems as outlined in design specifications • common problems or faults to prefabricated timber systems arising from on-site installation • on-site workflow processes and schedules • types of progress charts, timetables and estimated times for on-site construction works and why deadlines should be kept • damage effects associated with materials, components, connections or different insulations on the structural, fire and acoustic performance of a prefabricated timber building system • critical performance metrics (quality, cycle time, productivity, inventory) for the on-site installation of prefabricated timber building systems • tools and equipment maintenance and servicing requirements as outlined in organisational procedures or manufacturer manual • waste management procedures (safe disposal and recycling of waste) • reporting requirements regarding quality checks and product changes or variations during installation.
Assessment Conditions
<p>Assessment of skills 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 a construction site or an environment that accurately represents workplace conditions • resources, equipment and materials: <ul style="list-style-type: none"> • specialised tools and equipment for installation and fixing of prefabricated timber building systems • prefabricated timber building systems, components, sections and fittings • personal protective equipment used in building construction operations • specifications: <ul style="list-style-type: none"> • access to workplace policies and procedures which cover current Work Health and Safety Acts or Occupational Health and Safety Acts, regulations, industry standards and codes of practice applicable to building construction operations • access to workplace health and safety plans, 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, building regulations • relationships: <ul style="list-style-type: none"> • team member(s) including licenced crane or dogger operator to lift timber building systems • timeframes: <ul style="list-style-type: none"> • according to time specified in job sheet. <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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