Modification history

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

| FWPXXX0000 | Verify compliance and conformance of prefabricated timber building systems during off-site manufacture |
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| Application | This unit of competency describes the skills and knowledge required to verify physical performance and compliance liability of prefabricated timber building systems and components during off-site manufacturing to ensure that the 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  No occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | [Sector] ([SEC]) |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Prepare to verify timber building systems and components | 1.1 Obtain and confirm production schedule, design documentation, plans, requirements and established procedures relevant to the off-site manufacturing order  1.2 Follow workplace health and safety risk control measures and procedures according to relevant plans and design specifications in preparation for the work  1.3 Identify testing, certification and compliance requirements for prefabricated timber building system, components, materials and/or in-built services from design specifications or appropriate codes and standards  1.4 Identify tolerances for material quality, physical dimensions and service connections from design specifications  1.5 Prioritise and sequence verification work according to production schedules for completion within established timeframes  1.6 Consult appropriate personnel, testers and certifiers to coordinate verification work efficiently |
| 2. Conduct verification for compliance and conformance | 2.1 Ensure that connections, structural components and physical dimensions of timber framing structure are tested appropriately before off-site installation of services for minimum specified design requirements regarding strength, thickness, tolerances and choice of materials  2.2 Verify manufacturer documentation for services equipment and ensure the products are compliant with standards, codes and certifications relevant to the local jurisdiction in which the timber building system is installed  2.3 Ensure that partition/walls or floor elements of the structure are tested and certified for thermal, acoustic and fire performance in line with the design, local codes and standards to ensure that continuity issues in the final installed structure are minimised or eliminated  2.4 Verify documentation for regulated components such as fire-rated walls or fire protection systems to meet performance requirements in line with relevant codes, standards and design specifications; and ensure that damage within the manufacturing environment is limited  2.5 Ensure that any variations of material properties or system component decided during the off-site manufacture of timber building systems are tested for performance and meet design specification, relevant codes and standards  2.6 Ensure that off-site installation of services are tested to the appropriate local standards and 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 findings | 3.1 Identify and report non-compliance and non-conformance issues 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. | |
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| Skill | Description |
| [Skill] | * [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 Guidelines for the skills to be described, the order in which to list them and hints on writing descriptions |
| [Skill] | * SI Bullet List 1 * SI Bullet List 1 |
| [Style to be applied in left column is SI Text[ | * SI Bullet List 1 * SI Bullet List 1] |

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| Unit Mapping Information | | | |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FWPXXX0000 Verify compliance and conformance of prefabricated timber building systems during off-site manufacture | Not applicable | New unit | Not applicable |

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| 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 FWPXXX0000 Verify compliance and conformance of prefabricated timber building systems during off-site manufacture |
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| Performance Evidence | |
| An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that, on at least one occasion, the individual has:   * implemented workplace health and safety procedures and practices including the use of risk control measures * 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 strength, thickness, tolerances and choice of materials * services equipment including hydraulic, electrical and 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 or timber building systems * recommended appropriate corrective actions * reported legibly and accurately. | |

| Knowledge Evidence |
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| 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 including risk control measures * compliance standards for hydraulics, electrical and HVAC mechanical services * verification procedures during the manufacture of timber building systems for all aspects of product compliance and conformance control * elements of a valid and effective manufacturing inspection, verification and certification processes as outlined in national and international standards * methods to verify conformance of the actual product quality to the claimed product quality * methods to verify compliance of National Construction Code (NCC) Performance Requirements as outlined in the Code * testing techniques for the partition and floor elements of the structure to measure thermal, acoustic and fire performance * fire rating testing techniques * testing techniques for hydraulics, electrical and HVAC mechanical services as required by standards and equipment manufacturer including: * pressure testing of all pipework and ductwork * operational checks of all fans, HVAC equipment and controls systems * performance testing of all air and water flow rates as far as practical * visual inspection of wiring for faults (both prior to and following transportation of components) * elements associated with manual handling hazards and risks of completed timber building systems including: * cut metal edges * exposed screw tips and nails * abrasion of insulation materials resting on metal edges * pinch points in connections * surfaces which can retain rainwater * elements of Inspection and Test Plans (ITPs) and Inspection and Test records (ITRs) * verification reporting and sign off procedures as accepted by the industry or established in the workplace. |

| Assessment Conditions |
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| 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 and organisation specific compliance standards and design documentation * access to production schedules * access to comprehensive real or simulated certificates, test documentation and product/manufacturer specifications * access to template Inspection and Test Plans (ITPs) and Inspection and Test records (ITRs) * access to organisational policies and procedures for documenting verifications for product compliance and conformance * relationships: * production personnel with whom the individual can interact   Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards. |

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