Modification history

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| Release | Comments |
| Release 2 | This version released with FWP Forest and Wood Products Training Package Version 4.0.Version created to update workplace health and safety requirements in performance criteria, clarify intent of unit and assessment requirements and update foundation skills. |
| Release 1 | This version replaces equivalent unit FPICOT2230B Assemble products, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2.This is the first release of this unit in the new standards format. |

| UNIT CODE | FWPCOT2230 Assemble products |
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| Application | This unit of competency describes the skills and knowledge required to prepare and assemble construction-ready timber products. Work also involves stacking, strapping and despatching assembled timber products in readiness for transport to a construction site.The unit applies to individuals who assemble products for despatch in a timber product manufacturing facility. 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. No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil |
| Unit Sector | Timber Manufactured ProductsWood Panel ProductsSawmilling and Processing |

| 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 for assembly work | 1.1 Review construction plans, work order, workplace health and safety requirements, environmental protection practices and emergency procedures for assembly operation and where required clarify with appropriate personnel1.2 Identify and report hazards and use personal protective equipment (PPE) in line with workplace requirements and health and safety legislation to maintain safe work practices1.3 Identify and obtain type and quantity of material to be assembled and hardware1.4 Select appropriate tools and equipment and check for operational effectiveness in line with manufacturer recommendations1.5 Identify and prepare set-up jigs required for construction |
| 2. Set up timber components | 2.1 Select timber components from pre-cut material in line with cutting list2.2 Reject material with defects and dispose of in line with environmental protection practices2.3 Use equipment in line with workplace health and safety procedures and manufacturer instructions 2.4 Position and clamp timber components in jigs ready for joining and check for allowable faults, joins and grain in line with construction standards and grading rules2.5 Staple timber components to maintain temporary alignment during assembly |
| 3. Install assembly hardware | 3.1 Position and install hardware on joints in line with construction plans3.2 Nail or staple temporary bracing to product in line with construction standards3.3 Correct assembly faults3.4 Identify routine processing and equipment faults and resolve or report to appropriate personnel |
| 4. Prepare timber products for despatch and report | 4.1 Check finished timber product for quality and label in line with work order4.2 Remove timber product from jigs and safely stack in designated location4.3 Strap, pack and label finished timber products ready for transportation4.4 Avoid wastage of strapping and packaging materials and maximise use of recycled materials4.5 Complete quality records and report for production outcomes, equipment faults and maintenance requirements in line with workplace procedures |

| Foundation SkillsThis 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 |
| Writing  | * produce basic clear labels for product identification and transportation
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| Numeracy  | * count quantities of materials and hardware components and select appropriate sizes
* complete routine calculations for component layouts
* accurately measure lengths and angles
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| Navigate the world of work | * understand main tasks, responsibilities and boundaries of own role
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| Interact with others | * use modes of communication suitable to purpose to confirm and clarify understanding
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| Get the work done | * recognise and respond to routine problems
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| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FWPCOT2230 Assemble products | FWPCOT2230 Assemble products | Updated workplace health and safety requirements in performance criteria; clarified intent of unit and assessment requirements; updated foundation skills. | Equivalent unit  |

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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 FWPCOT2230 Assemble products |
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| Performance Evidence |
| An individual demonstrating competency must satisfy all of the elements, performance criteria and foundation skills of this unit. There must be evidence that, on at least one occasion, the individual has:* assembled one or more of the following timber products in line with an individual work order, construction plan and workplace health and safety requirements:
* pallets
* crates
* trellises
* stairs
* doors
* windows
* beams
* strapped, packed and labelled bundles of completed timber products ready for transportation
* completed a detailed and accurate report production outcomes and equipment faults.
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| 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:* health and safety hazards or risks related to assembling timber products as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides
* workplace procedures specific to assembling timber products:
* health and safety with particular emphasis on equipment lock out
* use of equipment for assembling timber products
* communication reporting lines
* recording and reporting production outcomes and equipment faults
* environmental protection practices for timber product manufacturing facilities:
* reducing water and energy use
* cleaning plant, tools and equipment
* disposing of, recycling and reusing timber
* typical timber component defects and how these affect ability to produce a quality finished product:
* warp
* wane
* cupping
* shakes
* insect defects
* knots
* resin pockets
* assembly sequences
* componentry and construction standards
* typical assembly faults triggering correction to ensure timber product quality including:
* incorrectly positioned joints
* timber splits from nailing
* incorrectly positioned hardware
* storage layout and categories for stacking finished timber products
* types of tools, equipment and assembly hardware used for assembling timber products, their purpose, features and operation:
* measuring equipment
* assembly jigs
* nail plate presses
* staple guns
* nail guns
* compressor or compressed air supply
* marking equipment
* strapping equipment
* nailing plates
* gang nails
* nail gun nails
* staples
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| Assessment Conditions |
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| Assessment of skills must take place under the following conditions: * physical conditions:
* skills must be demonstrated in an environment that accurately represents workplace conditions
* resources, equipment and materials:
* tools and equipment used to assemble timber products
* assembly hardware
* personal protective equipment suitable for assembling timber products
* pre-cut sections of timber
* specifications:
* manufacturer instructions for equipment use
* work order and construction plan with specifications for assembling timber products
* template documents for recording production outcomes and equipment faults
* workplace procedures for assembling timber products including health and safety and emergency procedures and environmental protection procedures.

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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