Modification history

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

| UNIT CODE |  |
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| Application | This unit of competency describes the skills and knowledge required to use profiling equipment for cutting timber and engineered wood products to a profile to produce moulded timber and wood products in a manufacturing facility. The unit applies to individuals who work as benchman, machine operators, timber products technicians, production technicians, press operators. 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 | Common Technical |

| 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 profiling timber or engineered wood products | 1.1 Review work order, specifications and workplace health and safety requirements, environmental protection practices and emergency procedures for timber profiling operations and where required check 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 Obtain type and quantity of material for profiling from storage location1.4 Identify profile to be cut and select cutting blades |
| 2. Set up profiling equipment | 2.1 Use equipment in line with workplace health and safety procedures, manufacturer instructions and environmental protection practices2.2 Follow lock-out procedures, select and attach machine guides and install cutting blades2.3 Set depth of cut or profile in line with required shape and to minimise waste2.4 Stack material in close proximity to maximise ease of machine feeding2.5 Test equipment set-up for correct profile alignment through trial run and adjust as required |
| 3. Cut timber or engineered wood product to profile | 3.1 Feed timber or engineered wood product into machine at feed rate prescribed by organisational requirements3.2 Follow, maintain and adjust cutting sequence to produce required quantity and maximise feed rate3.3 Check profiling process regularly and adjust to maintain desired depth and profile3.4 Dispose of incorrect cuts, off cuts and defective material in line with environmental protection practices3.5 Stack material safely in designated location in line with work order |
| 4. Complete operator maintenance | 4.1 Lock out equipment in line with workplace health and safety procedures 4.2 Check cutting blades for bluntness or damage4.3 Remove and replace cutting blades in line with manufacturer recommendations4.4 Keep machine area clear of dust and debris in line with workplace health and safety procedures 4.5 Record and report production outcomes, equipment faults and maintenance requirements to appropriate personnel |

| 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 |
| Numeracy  | * identify quantities of required material within work orders and count numbers of panels to be profiled
* complete basic calculations of required depth of cut or profile to determine equipment set up
* measure finished dimensions against specifications and allowable tolerances
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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 |
|  |  | Updated industry terminology, workplace health and safety requirements and foundation skills; clarified intent of the unit and assessment requirements; changed unit title and code for compliance and consistency with the updates | 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 FWPCOT3XXX Cut timber and engineered wood product to profile |
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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:* followed workplace health and safety requirements and environmental protection procedures for cutting timber or engineered wood product to profile
* cut timber or engineered wood product to profile in line with a work order and prescribed organisational specifications
* conducted operator maintenance on profiling equipment
* stacked batches of cut timber or engineered wood product in line with and workplace health and safety requirements.
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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 operating a profiling equipment for timber or engineered wood products as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides
* workplace procedures specific to cutting timber or engineered wood product to profile:
* health and safety with particular emphasis on equipment lock out and use of personal protective equipment
* use of timber profiling equipment
* communication reporting lines
* recording and reporting production outcomes, equipment faults and maintenance requirements
* environmental protection practices for timber manufacturing facilities:
* cleaning plant, tools and equipment
* disposing of, recycling and reusing timber and other waste
* reducing water and energy use
* characteristics of timber or relevant engineered wood product
* storage systems and labelling procedures including
* storage racks
* storage bays
* bins
* stacks
* pallet boxes
* modularised storage components
* temporary stacking bays
* storage layout and categories for:
* raw materials
* stacking finished timber products
* typical timber or engineered wood product defects and how they affect ability to produce quality profiled product:
* warp
* wane
* cupping
* shakes
* insect defects
* knots
* resin pockets
* range of common profiles and applicable terminology including:
* quad
* beading
* mouldings
* shaped beams
* architraves
* skirting boards
* scotia
* common cutting patterns used to achieve common profiles
* range of feed rates and how they affect production output and finished quality of material
* purpose, features and operation of equipment used to cut timber or engineered wood product to profile:
* measuring equipment
* multi-head planing machines (four siders)
* spindle moulders
* routing machines
* shaping machines
* machine guides
* methods for assessing cutting blade condition.
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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:
* measuring equipment
* profiling equipment including one or more of the following:
* multi-head planing machines (four siders)
* spindle moulders
* routing machines
* shaping machines
* machine guides
* maintenance tools and equipment for removing and replacing cutting blades
* consumable profile cutting blades in various shapes and sizes
* personal protective equipment suitable for cutting material to profile
* suitable material including one or more of the following commercial timber: dressed timber, in-the-rough timber, stress and non-stress graded timber, preservative treated timber, medium density fibreboard, laminated veneer, chipboard, fibreboard, coated and/or treated timber products, glue laminated timber (Glulam), cross laminated timber (CLT)
* specifications:
* manufacturer instructions for use and maintenance of equipment
* work order with specific instructions for cutting timber or engineered wood product to profile
* workplace policies and procedures for cutting timber or engineered wood product to profile including health and safety and emergency procedures and environmental protection procedures
* template documents for recording production outcomes, equipment faults and maintenance requirements.

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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