

Modification history

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 6.0.

FWPCOT3XXX	Assemble timber roof trusses
Application	This unit of competency describes the skills and knowledge required to plan and set up and assemble timber roof trusses using a truss jig or computer-operated truss table. It includes the operation and control of a truss press. Work is completed in a timber and wood products production setting. The unit applies to press operators, timber manufactured products technicians, jig setters, machine operators, saw operators. A person working at this level would be expected to take responsibility for organising and completing tasks assigned to them without close supervision. No licensing, legislative or certification requirements apply to this unit at the time of publication.
Prerequisite Unit	Nil
Unit Sector	Common technical (COT)

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. Prepare for assembly	1.1 Read and interpret work order and job design and specifications to recognise and identify timber roof truss details 1.2 Read and interpret workplace safety documentation to recognise safety procedures and requirements relating to timber roof truss assembly 1.3 Establish type and determine quantity of assembly material required for the job 1.4 Determine type of nail plates and components required from specifications 1.5 Select appropriate tools and equipment and check for serviceability in line with manufacturer's recommendations 1.6 Determine job priorities and sequence job tasks in consultation with others in the workplace 1.7 Select, fit and use personal protective equipment (PPE) appropriate for the task
2. Set up for timber roof truss assembly	2.1 Prepare, set-up and adjust assembly table or jigs to specified roof truss pattern configuration 2.2 Select and position pre-cut material to include webs, overhang and other design requirements 2.3 Discard defective or unsuitable components 2.4 Clamp components in jigs and check for fit and allowable tolerances 2.5 Select and position steel nail plates accurately over joints in line with job specifications
3. Control pressing operations	3.1 Conduct a pre-operation check on truss press equipment 3.2 Carry out inspection of initial truss to ensure all nail plates are fixed to meet job requirements 3.3 Coordinate and operate truss-pressing operations to ensure finished product complies with job specifications 3.4 Assess finished product for quality against job specification and label in line with work order

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
4. Prepare products for despatch and report	4.1 Remove components from assembly table or jigs and safely stack in designated location 4.2 Strap, pack and label finished products ready for transportation 4.3 Avoid wastage of strapping and packaging materials and maximise use of recycled materials 4.4 Record and report production outcomes and difficulties to appropriate personnel
5. Clean up	5.1 Clean the work area and recycle, reuse or dispose of waste following workplace and environmental requirements 5.2 Clean and maintain tools, equipment and machinery and report any faults or damage to appropriate person 5.3 Return and safely store tools and equipment to their designate area

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
Writing	<ul style="list-style-type: none"> • Produce labels using clear and legible writing • Complete records, reports or forms to record information using correct grammar and punctuation.

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3XXX Assemble timber roof trusses	FWPCOT3242 Lay up timber roof trusses	<p>Major</p> <p>Redesigned unit using content from FWPCOT3242 Lay up timber roof trusses and FWPCOT3243 Operate a truss press</p> <p>Title - Re-titled to Assemble timber roof trusses.</p> <p>Application - added the expected level of performance required in the workplace and incorporated outcomes from both units</p> <p>Elements – renamed 2 and added 5 Clean up</p> <p>Performance Criteria – for Elements 1, 2, 3, rewritten to align with elements and clarify outcome and performance</p> <p>Foundation Skills – maintained and updated writing</p> <p>Performance Evidence – added volume</p> <p>Knowledge Evidence – incorporated essential knowledge statements from the two units and listed under appropriate knowledge headings</p> <p>Minor</p> <p>Assessment Conditions – updated to stipulate mandatory conditions required in the workplace</p>	No equivalent unit

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47
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TITLE	Assessment requirements for FWPCOT3XXX Assemble timber roof trusses
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <ul style="list-style-type: none"> • There must be evidence that the individual has: • assembled a minimum of two of the following: <ul style="list-style-type: none"> • standard type truss • truncated standard truss • girder truss • truncated girder • jack truss • gable truss • saddle/valley truss • set up and operated a truss press • labelled, strapped, packed and protected products ready for transportation. 	
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"> • organisational quality requirements • workplace and environmental requirements: <ul style="list-style-type: none"> • disposing, recycling and reusing waste materials • workplace safety <ul style="list-style-type: none"> • hierarchy of control • safe operation of machinery and equipment • exposure to excessive noise • hazardous manual tasks • use of personal protective equipment (PPE) • exposure to dust • electrical hazards • typical timber defects and impact on the finished product: <ul style="list-style-type: none"> • warp • wane • cupping • shakes • insect defects • knots • resin pockets • processes, procedures and techniques of: <ul style="list-style-type: none"> • flow of material supply in and out of the roof truss assembly area • use of assembly componentry • assembly sequences and jig and press operation • stacking and storing materials • labelling products for identification and transportation • stacking, binding and protecting finished products ready for dispatch • communicating across reporting lines • recording and reporting assembly outcomes and equipment faults • identifying transport methods • functional and operational features of tools, equipment and machinery <ul style="list-style-type: none"> • measuring and marking equipment • electric circular saws • docking saws • drills • assembly jigs • assembly table 	

Knowledge Evidence
<ul style="list-style-type: none"> • nail plate presses • staple and nail guns • compressor or compressed air supply • strapping equipment • range of industry standard lengths, cross sections and tolerances and applicable terminology • typical assembly faults triggering correction to ensure product quality: <ul style="list-style-type: none"> • incorrectly positioned joints • timber splits from nailing • incorrectly positioned of connector plates/straps • functional and operational features of tools, equipment and machinery: <ul style="list-style-type: none"> • marking and measuring equipment • assembly jigs • truss tables • circular saws • docking saws • drills • nail plate presses • staple guns • nail guns • compressor or compressed air supply • strapping equipment.

Assessment Conditions
<p>Assessment of the skills in this unit of competency 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 the workplace or an environment that accurately represents workplace conditions • resources, equipment and materials: <ul style="list-style-type: none"> • timber products and connector plates • assembly tables or jigs and press equipment to produce timber roof trusses • specifications: <ul style="list-style-type: none"> • organisational policies and procedures • workplace safety and environmental documentation • job design specifications and work orders • relationships: <ul style="list-style-type: none"> • supervisor or team member <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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