



Australian Government

FWPTMM3214 Assemble timber floor trusses

Release: 1

FWPTMM3214 Assemble timber floor trusses

Modification History

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

Application

This unit of competency describes the skills and knowledge required to plan, set up and assemble timber floor trusses using a purpose-built jig or computer-operated truss table. It includes the operation and control of a truss press.

The unit applies to machine operators and product technicians in a timber and wood products production environment at either a truss/frame fabrication facility or timber merchant's facility who 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.

Pre-requisite Unit

Nil

Unit Sector

Timber Manufactured Products (TMM)

Elements and Performance Criteria

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 Determine job requirements from work order or fabrication plan, and where required, confirm with appropriate person 1.2 Confirm safety requirements for timber floor truss assembly according to workplace safety procedures 1.3 Identify type and determine quantity of material required for assembly of floor trusses according to fabrication plan

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Determine type of nail plates and components required from specifications 1.5 Select, fit and use personal protective equipment (PPE) 1.6 Select appropriate tools and equipment, check for serviceability according to manufacturer recommendations and report faults or damage 1.7 Determine job priorities and sequence job tasks according to fabrication plan
2. Set up for floor timber truss assembly	2.1 Prepare, set up and adjust assembly table or jigs to specified floor 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 according to workplace procedures 2.4 Clamp components in jigs and check for fit and allowable tolerances 2.5 Select and position steel nail plates accurately over joints according to fabrication plan
3. Control pressing operations	3.1 Conduct a pre-operation check on truss press equipment according to manufacturer instructions and workplace procedures 3.2 Carry out inspection of initial truss to ensure all nail plates are fixed according to fabrication plan 3.3 Coordinate and operate truss-pressing operations and confirm finished product complies with fabrication plan and work order
4. Prepare products for despatch and report	4.1 Remove components from assembly table or jigs, and safely stack in designated location according to workplace safety requirements 4.2 Strap, pack and label finished product ready for despatch 4.3 Report equipment faults or production problems according to workplace procedures 4.4 Complete and maintain accurate records and reports of assembly outcomes according to workplace procedures
5. Clean up	5.1 Clean work area and recycle, reuse or dispose of waste according to workplace and environmental requirements 5.2 Clean and maintain tools, equipment and machinery, and report

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	any faults or damage according to workplace procedures 5.3 Return and safely store tools and equipment to designated areas

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.

Skill	Description
Writing	- Produce labels using clear and legible writing - Complete records, reports or forms to convey information using correct grammar and punctuation.
Oral Communication	Use clear and concise language to report production problems or equipment faults.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPTMM3214 Assemble timber floor trusses	FWPTMM3207 Set up timber floor trusses	Redesigned unit that includes content from FWPTMM3207 Set up timber floor trusses and FWPCOT3243 Operate a truss press	Not Equivalent
FWPTMM3214 Assemble timber floor trusses	FWPCOT3243 Operate a truss press	Redesigned unit that includes content from FWPTMM3207 Set up timber floor trusses and FWPCOT3243 Operate a truss press	Not Equivalent

Links

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

Assessment Requirements for FWPTMM3214 Assemble timber floor trusses

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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 the individual has assembled timber floor trusses on at least two occasions.

In performing this assembly work, there must be evidence that the individual has:

- assembled pre-cut timber truss members and nail plate components with allowable tolerances and to job specifications
- set up and operated a truss press
- prepared timber truss products for despatch according to job design and specifications.

Knowledge Evidence

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 quality requirements relevant to assembling timber floor trusses
- workplace environmental policy and procedures for disposing of, recycling and reusing waste materials
- workplace safety requirements relevant to assembling timber floor trusses:
 - safe operation of machinery and equipment
 - exposure to excessive noise
 - hazardous manual tasks
 - use of personal protective equipment (PPE)
 - exposure to dust
 - hazard identification and controls
- processes, procedures and techniques for:
 - flow of material supply in and out of the floor truss assembly area
 - 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 despatch
- workplace communication and reporting lines
- recording and reporting assembly outcomes and equipment faults
- functional and operational features of tools, equipment and machinery for floor truss assembly:
 - measuring and marking equipment
 - electric circular saws
 - docking saws
 - drills
 - assembly jigs
 - assembly table
 - nail plate presses
 - staple and nail guns
 - compressor or compressed air supply
 - strapping equipment
- characteristics, properties and limitations of timber products and components:
 - hardwood, softwood and manufactured timber product
 - various metal connector plates
- timber defects and impact on finished product:
 - warp
 - wane
 - cupping
 - shakes
 - insect defects
 - knots
 - resin pockets
- industry terminology related to floor truss assembly.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a timber manufacturing or processing facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - timber products and connector plates
 - assembly tables or jigs and press equipment to produce timber floor trusses
- specifications:

- access to workplace policies and procedures, job design specifications and work orders applicable to assembling timber floor trusses
- access to workplace safety and environmental requirements applicable to assembling timber floor trusses
- relationships:
 - supervisor or team member.

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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