



Australian Government

FWPTMM2203 Read and interpret timber truss, floor and/or frame fabrication plans

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPITMM2203A Read and interpret timber truss, floor and/or frame fabrication plans, 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.

Application

This unit of competency describes the outcomes required to read and interpret truss, floor and frame fabrication plans showing construction details and component specifications. Work is completed in a forest and wood products factory setting.

The unit applies to Timber Manufactured Products Technician, Timber Fabricator, Machine Operator.

No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Timber Manufactured Products

Timber Merchandising

Elements and Performance Criteria

<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
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1. Review and clarify fabrication plans	1.1 Review and clarify fabrication plans and work order where required with appropriate personnel. 1.2 Interpret drawing views and notes and identify design requirements and restrictions. 1.3 Obtain additional information and data from appropriate personnel and sources.
2. Interpret fabrication plans	2.1 Interpret plan, work requirements and sequencing for application to assembly work. 2.2 Confirm layouts, spacing and sizing of individual structural members. 2.3 Allow for quantities of bracing and ancillaries for trusses or frames. 2.4 Interpret timber and hardware component details. 2.5 Identify, locate and label bracing points. 2.6 Establish a need for camber.
3. Confirm work order and fabrication plan	3.1 Follow workplace health and safety procedures throughout production activities. 3.2 Select and prepare set-up jigs required for construction. 3.3 Identify truss, floor or frame types and select timber type and species in line with plan. 3.4 Locate and select assembly hardware in line with fabrication plans and standards. 3.5 Visually assess characteristics and design details of material against plan. 3.6 Reject and dispose of sub-standard materials in line with environmental protection practices. 3.7 Discuss common site problems and suggest solutions for better meeting design requirements.
4. Confirm products to fabrication plan	4.1 Set components to include camber adjustments, overhang and other design requirements. 4.2 Position and install hardware on joints in line with plan specifications. 4.3 Correct assembly faults in line with site procedures. 4.4 Assess finished product for quality against assembly drawing and label in line with work order. 4.5 Record and report assessment outcomes to appropriate personnel.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:	- interpret production data from fabrication plans to: - complete calculations of sizes and spacing of individual structural members - count quantities of timber and hardware components and select appropriate sizes - accurately measure lengths, camber, overhang and cutting angles.
Oral communication skills to:	ask questions and actively listen to clarify contents of fabrication plans and work orders.
Reading skills to:	- interpret: - WHS and other organisational procedures - fabrication plans and work orders.
Writing skills to:	- produce basic clear labels for product identification - complete accurate basic reports assessing finished product for quality and compliance with fabrication plans.
Planning and organising skills to:	efficiently and logically sequence the stages of preparation and production using work order to guide activities.
Problem-solving skills to:	- identify and reject sub-standard materials - identify assembly faults and resolve by making adjustments.
Technology skills to:	select and use appropriate machinery, tools and personal protective equipment used for production activities.

Range of Conditions

Not Applicable

Unit Mapping Information

FPITMM2203A Read and interpret timber truss, floor and/or frame fabrication plans

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPTMM2203 Read and interpret timber truss, floor and/or frame fabrication plans

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Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:

- follow organisational policies and procedures relevant to reading and interpreting timber truss, floor and/or frame plans
- develop a logical construction sequence for products from the fabrication plans.

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- environmental protection practices for forest products factory settings:
 - reducing water and energy use
 - disposing of, recycling and reusing timber and other waste
- characteristics of timber and timber defects
- key features of timber trusses, floors and frames and their components
- abbreviations, symbols and industry terminology used in fabrication plans
- units of measurement and component tolerances in use at the work site
- industry standard cross sections and lengths
- types of timber truss, floor and frame assembly tools and equipment; their purpose, features, and operation:
 - measuring equipment

- electric circular saws
- docking saws
- drills
- assembly jigs
- assembly table
- nail plate presses
- staple guns
- nail guns
- compressor or compressed air supply
- marking equipment
- organisational policies and procedures specific to assembling timber trusses, floors and frames:
- workplace health and safety specific to assembling timber trusses, floors and frames and use of equipment
- communication reporting lines
- recording and reporting assessment of quality of finished product.

Assessment Conditions

The following resources must be made available:

- timber truss, floor and frame assembly tools and equipment:
 - measuring equipment
 - electric circular saws
 - docking saws
 - drills
 - assembly jigs
 - assembly table
 - nail plate presses
 - staple guns
 - nail guns
 - compressor or compressed air supply
 - marking equipment
- assembly hardware:
 - nailing plates
 - floor truss plates
 - bracing
 - supplementary fittings and fixings
 - nail gun nails and staples
- personal protective equipment suitable for assembling timber trusses, floors and frames
- pre-cut sections of timber

- work order and fabrication plan with specifications for assembling timber trusses, floors and frames
- template reports for recording assessment of quality of finished product
- relevant personnel for the purposes of communicating information
- organisational policies and procedures for assembling timber trusses, floors and frames

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.

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