



Australian Government

FWPCOT3218 Quote and interpret from manufactured timber product plans

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent FPICOT3218B Quote and interpret from manufactured timber product 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 interpret plans and layouts and manually prepare quotations for standard roof and floor trusses and wall frames.

The unit applies to workers who plan and quote on timber and wood products in a facility that produces these products.

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>
1. Interpret plans and loading conditions	1.1 Interpret and assess plans, drawing views and notes; identify loading information and design requirements and restrictions. 1.2 Obtain additional information and data from appropriate personnel and other sources.

	1.3 Create functional and pictorial images of structure, simple trusses, frames or floors based on design requirements.
2. Complete manual quote for roof and floor trusses	2.1 Select roof truss types to meet order requirements and define structure using common industry spacing's for trusses and components. 2.2 Determine layouts, spacing and sizing of individual structural members progressively, in line with order requirements. 2.3 Calculate and document quantities for bracing and roof truss ancillaries. 2.4 Select appropriate floor trusses from range of certified standard designs. 2.5 Prepare, check and record quotation for roof and floor trusses in line with organisational procedures.
3. Complete manual quote for wall frames	3.1 Measure and calculate wall frame lengths from plans and dimensions appropriate to timber sizes. 3.2 Prepare, check and record quotation for wall frames including costing per unit length in line with organisational procedures.

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 numerical data from designs and plan specifications involving height, length, angles, shape, pitch and load - complete calculations involving dimensions, quantities and unit price costs - record precise numerical details of measurements, quantities and costs.
Oral communication skills to:	ask questions and actively listen to clarify contents of designs, plans, drawings and notes.
Reading skills to:	interpret designs, plans and technical notes.
Writing skills to:	develop, document and present quotations in a clear format.
Planning and organising skills to:	plan processing of quotations in a logical sequence and manage own timing and productivity to complete quotations within deadlines.

Range of Conditions

Not Applicable

Unit Mapping Information

FPICOT3218B Quote and interpret from manufactured timber product 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 FWPCOT3218 Quote and interpret from manufactured timber product 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:

- complete quotations regarding the following types of manufactured timber products in line with an individual design and set of specifications for each for each job:
 - timber roof trusses
 - timber floor trusses
 - timber wall frames
- prepare documentation advising on production and installation to accompany quotations.

Knowledge Evidence

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

- applicable building and structural regulations for timber wall frames, roof and floor trusses
- common industry terminology for all components of timber wall frames, roof and floor trusses
- common industry standard layouts, spacing and sizing dimensions of individual members for timber wall frames, roof and floor trusses
- relationship between component loads and supports and spans

- methods used to manually calculate, using tables and scientific calculators:
 - layout of roof trusses
 - truss, beam and frame materials and quantities
- industry and specific organisational:
 - quotation processes for timber wall frames, roof and floor trusses
 - sources of costs for materials and labour to manufacture
 - formats for and inclusions of quotations
 - formats for and inclusions of production and installation advice documents
- organisational procedures for preparing and documenting quotations for timber wall frames, roof and floor trusses.

Assessment Conditions

The following resources must be made available:

- computers, keyboards and industry current software programs used to produce documents
- scientific calculators
- designs, plans, technical specifications and notes for timber wall frames, roof and floor trusses on which to base quotation
- in-house material price lists, product description sheets or manuals; either electronic or hard copy
- template documents for recording calculations and quotations
- sample production and installation advice documents
- organisational procedures for preparing and documenting quotations for timber wall frames, roof and floor trusses.

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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