



Australian Government

FWPCOT3305 Interpret and quote from manufactured timber product plans

Release: 1

FWPCOT3305 Interpret and quote from manufactured timber product plans

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 process and prepare manual or electronic quotations from timber wall frame and timber floor and/or roof trusses product plans. It includes interpreting plan layouts and specifications to determine design, material types and material quantities to estimate costs.

The unit applies to timber truss or frame fabricators and timber systems designers who interpret plans and quote on timber and wood products and who take responsibility for organising and completing these tasks with a high degree of self-direction.

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

Pre-requisite Unit

Nil

Unit Sector

Common Technical (COT)

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. Interpret plans and specifications	1.1 Identify type of structure and specified design requirements from product plans and specifications 1.2 Review design options for feasibility, ease of erection, material availability and site requirements, and confirm customer design preference

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Identify any limitations or restrictions to specified design, and refer to engineer for clarification 1.4 Obtain additional information and data as required from appropriate person or other sources 1.5 Create functional and simple pictorial images of the project, including bracing and any additional structural support, based on design and specification requirements
2. Estimate components manually or electronically	2.1 Identify project layout, dimensions for heights, spans and spacing 2.2 Identify location of load-bearing members and clarify any specific structural or construction/erection requirements 2.3 Determine type of materials, sectional sizes and lengths to be used for the project 2.4 Select timber type and species according to suitability and availability 2.5 Determine type of ancillaries for the project, and calculate quantities according to design specifications
3. Prepare quotation	3.1 Tally figures and ensure project design, production costs and any additional fees or costs are included 3.2 Calculate total cost and review quotation for completeness and accuracy according to workplace procedures 3.3 Prepare quotation and associated documentation for presentation

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
Reading	Extract design information from plan and specifications in preparation for quoting
Numeracy	- Interpret dimensions and numerical data from design plans specifications - Use formulas to calculate quantities, unit prices and total costing

Skill	Description
	Record precise numerical details of measurements, quantities and costs

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3305 Interpret and quote from manufactured timber product plans	FWPCOT3218 Quote and interpret from manufactured timber product plans	Redesigned unit using content from FWPCOT3218 Quote and interpret from manufactured timber product plans and FWPCOT3220 Quote and interpret from computerised timber manufactured product plans Retitled	Not Equivalent
FWPCOT3305 Interpret and quote from manufactured timber product plans	FWPCOT3220 Quote and interpret from computerised timber manufactured product plans	Redesigned unit using content from FWPCOT3218 Quote and interpret from manufactured timber product plans and FWPCOT3220 Quote and interpret from computerised timber manufactured product plans Retitled	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 FWPCOT3305 Interpret and quote from manufactured timber product plans

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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 prepared a quotation for two different projects, each with a minimum area of 100 square metres as below:

- a timber wall frame, and
- either a timber floor truss or a timber roof truss, each of which must incorporate a minimum of two different truss types.

For each project there must be evidence that the individual has:

- conveyed technical information from plans and specifications in written, sketch or oral form
- accurately determined the size, section and length of materials manually or using a software program
- prepared and saved/filed a quotation in full
- produced and presented quotations within designated timeframes.

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:

- building standards and codes relevant to timber floor trusses, timber roof trusses and timber wall frames:
 - spans and sectional sizes
 - load-bearing details
 - wind bracing and tie down requirements
 - relationship between component loads and supports and spans
- workplace policies and procedures relating to quoting manufacture of timber products:
 - cost inclusions
 - calculating and formatting quotations

- sources of material and labour costs
- common industry terminology for components of timber wall frames, roof and floor trusses
- processes, procedures and techniques of quoting:
 - methods to manually calculate quantities using tables and calculators
 - preparing and documenting computerised quotations
 - software programs to calculate quantities and costings

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 systems design or fabrication facility or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - computer with building design industry and current business software programs
 - calculators
- specifications:
 - access to current building codes and standards relevant to frame and truss fabrication
 - access to workplace project quotation templates
 - access to design plans, technical specifications and notes for timber wall frames, timber roof and floor trusses on which to base a quotation
 - access to electronic or hard copy current material price lists, product description sheets or manuals

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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