



Australian Government

FWPCOT3220 Quote and interpret from computerised timber manufactured product plans

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPICOT3220B Quote and interpret from computerised timber manufactured 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 prepare computerised quotations for roof and floor trusses and wall frames. Work is completed in a timber and wood products production setting.

The unit applies to Customer Service/Sales Assistant (retail or wholesale), Customer Service officer, Sales and Merchandising Team leader, Timber Advisor.

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

Pre-requisite Unit

Nil

Unit Sector

Common Technical

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. Select software	1.1 Identify and interpret work order, review and evaluate software options. 1.2 Select appropriate software program to meet quotation requirements.
2. Interpret plans and	2.1 Interpret and assess plans, drawing views and notes; identify

loading conditions	loading information and design requirements and restrictions. 2.2 Refer to engineers for calculations. 2.3 Obtain additional information and data from appropriate personnel and other sources. 2.4 Create functional and pictorial images of structures, including trusses, frames and or floors. 2.5 Refer design requirements outside software limitations to appropriate personnel for resolution.
3. Use computer programs to estimate components	3.1 Transfer fixed design details to layout data in line with software requirements. 3.2 Identify truss, frame or floor type and select timber type and species in line with material suitability and availability. 3.3 Define design structure using spacing of components, including trusses, frames and or floors in line with industry standards. 3.4 Fix component sizes to clarify and firm design options. 3.5 Select layouts, spacing and sizing of individual structural members progressively in line with software requirements. 3.6 Produce design details in line with software and order requirements. 3.7 Select design options based on feasibility, ease of erection, cost, material availability, customer preference and site requirements. 3.8 Review design details and modify without compromising truss, frame or structure strength.
4. Prepare quotation	4.1 Calculate total cost and produce quotation in designated format, using appropriate software. 4.2 Review quotation and check for completeness and accuracy in line with organisational procedures. 4.3 Complete computer records and prepare quotation for presentation 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
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	- complete complex calculations involving dimensions, quantities and unit price costs - record precise numerical details of measurements, quantities and costs.
Oral communication skills to:	ask detailed open and closed probe questions and actively listen to clarify contents of designs, plans, drawings and notes.
Reading skills to:	interpret detailed and unfamiliar designs, plans and technical notes.
Writing skills to:	develop, document and present complex 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

FPICOT3220B Quote and interpret from computerised timber manufactured 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 FWPCOT3220 Quote and interpret from computerised timber manufactured 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:

- interpret plans, loading conditions and technical information and conveying information in written, sketch and oral form
- use a scientific calculator and appropriate computer software to estimate truss, beam and frame materials and quantities
- produce quotations within designated timeframes

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
- for the software:
 - system functions and capabilities

- methods to input and amend design factors and other data
- methods used to estimate truss, beam and frame materials and quantities
- methods to store and retrieve quotations and other data
- industry and specific organisational:
 - computerised 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
- organisational procedures for preparing and documenting computerised 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 quotations for timber wall frames, roof and floor trusses
- 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 computerised 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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