



Australian Government

FWPCOT3219 Produce standard truss or frame plans and details using computers

Release: 2

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Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 3.0.
Release 1	This version released with FWP Forest and Wood Products Training Package Version 2.0.

Application

This unit of competency describes the outcomes required to use computerised systems to produce standard truss or frame plans, including layout production, fabrication and installation instructions. Work is completed in a forest products factory 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

Element	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 production

	outcomes.
2. Interpret plans and loading conditions	2.1 Interpret and assess plans, drawing views and notes; identify loading information and design requirements and restrictions. 2.2 Obtain additional information and data from appropriate personnel and other sources. 2.3 Create functional and pictorial image of structures, trusses and or frames based on design requirements. 2.4 Refer design requirements outside software limitations to appropriate personnel for resolution.
3. Test and select design options	3.1 Transfer fixed design details to layout data in line with software requirements. 3.2 Specify frame or truss types and select timber type and species in line with material suitability and availability. 3.3 Set common industry spacing of frames, trusses and components to defined design structure in line with industry standards. 3.4 Fix component sizes to clarify and confirm design options. 3.5 Select layouts, spacing and sizing of individual structural members progressively in line with software requirements. 3.6 Select, review and revise design details in line with work order.
4. Produce layouts and cutting requirements	4.1 Review design records for integrity, completeness and consistency in line with certifying authority standards. 4.2 Produce structural layout drawings and truss or frame assembly drawings using appropriate software. 4.3 Produce component cutting detail in line with production requirements and schedules. 4.4 Prepare and document production and installation advice in line with organisational procedures and industry standards. 4.5 Complete and maintain design records and documentation in line with organisational procedures.

5. Provide advice on design and production issues	5.1 Answer questions about designs and assembly requirements clearly and comprehensively. 5.2 Use effective communication techniques to assist and develop production personnel. 5.3 Provide alternative materials or sizes for components within design scope and production requirements. 5.4 Discuss common site problems and examine and adopt prevention strategies to ensure future practice meets design requirements.
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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 involving height, length, angles, shape, and load - input complex numerical data into software systems for layout, spacing and dimensions of structural members.
Oral communication skills to:	- ask detailed open and closed probe questions and actively listen to clarify contents of designs, plans, drawings and notes - provide clear unambiguous information about designs and assembly requirements - negotiate solutions to site installation problems.
Reading skills to:	interpret detailed and unfamiliar designs and technical notes.
Writing skills to:	- input clear written text into software systems - produce clear and detailed documents to support interpretation of drawings and assist with production and installation.
Planning and organising skills to:	plan and organise own work in logical sequence and manage own timing and productivity to complete plans, drawings and documents within deadlines.

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3219 Produce standard	FWPCOT3219 Produce standard truss	Updated unit sector information	Equivalent unit

Code and title current version	Code and title previous version	Comments	Equivalence status
truss or frame plans and details using computers Release 2	or frame plans and details using computers Release 1		

Links

Companion Volume implementation guides are found in VETNet -

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