



Australian Government

FWPCOT3303 Prepare sketches and drawings

Release: 1

FWPCOT3303 Prepare sketches and drawings

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 identify drawing conventions, structure design details and dimensions from construction plans and apply that information to prepare sketches and drawings that inform the fabrication plans.

The unit applies to timber advisors, customer service officers and timber frame and truss fabricators who would normally take responsibility for organising and completing tasks assigned to them without close supervision.

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. Plan the work	1.1 Identify workplace policies and procedures relevant to preparing sketches and drawings and confirm job requirements from work order or instruction 1.2 Source relevant information and measurements from construction plans or on-site measurements 1.3 Identify areas of insufficient detail or inconsistency and seek clarification from appropriate person

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Check details, dimensions, material type and design for accuracy according to workplace procedures 1.5 Determine sketch or drawing type suitable to represent and clearly communicate design
2. Confirm information	2.1 Identify conventions and features to prepare a two-dimensional or three-dimensional sketch or drawing 2.2 Collate information and check interrelationship with construction plans 2.3 Confirm design details with relevant person according to work order or instruction
3. Prepare sketches and drawings	3.1 Select and set up appropriate drawing equipment according to workplace procedures 3.2 Sketch design and include components, assembly methods and necessary accessories 3.3 Select drawing views to present required information with minimal drawing complexity 3.4 Prepare clear and accurate sketches and drawings according to work order or job specifications, workplace procedures and industry standards 3.5 Incorporate explanatory notes within sketches and drawings 3.6 Finalise and save sketches and drawings, and provide to appropriate person according to workplace procedures

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
Numeracy	- Distinguish measurements and reference dimensions from construction plans - Apply measurements to scale during the preparation of sketches and drawings

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3303 Prepare sketches and drawings	FWPCOT3204 Prepare and interpret sketches and drawings	Retitled Application updated Elements reworded Performance Criteria re-sequenced Assessment Requirements rewritten to specify volume of Performance Evidence Knowledge Evidence updated	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 FWPCOT3303 Prepare sketches and drawings

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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 sketches and drawings for two different timber projects from the list below:

- timber floor truss
- timber wall frame, or
- timber roof truss.

One project must be a 2-dimensional and one must be a 3-dimensional drawing.

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

- interpreted structural details, design and measurements from construction plans
- applied drawing conventions to the sketches and drawings, and followed relevant workplace policies and procedures for producing, retaining and supplying sketches and drawings
- prepared sketches and drawings that clearly represent intended design of project.

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:

- types of sketches and drawings used in timber frame and truss production:
 - isometric
 - orthographic
 - oblique
 - perspective
- drawing conventions and meaning:
 - title block
 - symbols and abbreviations

- line types
- dimension lines
- hatching
- scale
- details
- ways of incorporating features in sketches and drawings:
 - base lines
 - datum points
 - views and projections
 - details
 - dimensions and tolerances
 - instructions and notes
 - product and production symbols
- workplace policies and procedures related to producing, saving and supplying sketches and drawings
- drawing terminology
- methods of preparing, retaining and supplying sketches and drawings:
 - manual
 - electronic.

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 workplace or a simulated environment that accurately represents workplace conditions
- resources, equipment and materials:
 - manual or electronic drawing equipment and drawing materials
- specifications:
 - access to construction plans and specifications to inform sketches and drawings
 - access to work order or instruction detailing required projects for drawing.
- relationships:
 - person(s) to seek clarification from or confirm design details.

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

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