



Australian Government

Assessment Requirements for FWPCOT4202 Design timber structures

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.

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:

- prepare and document designs for timber structures in line with an individual design and set of drawing views and notes
- interpret drawings and loading conditions
- interpret and apply technical information and conveying information in written, sketch and oral form
- apply mathematical procedures
- develop and select truss, frame or floor layout options
- provide design and production advice.

Knowledge Evidence

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

- applicable building and structural regulations for standard timber wall frames, roof and floor trusses, including:
 - AS1684 and supplementary tables
 - CSIRO supplementary tables
 - the Building Code of Australia
 - other regulations relevant to this task
 - nail plate provider standards
- loading information including:
 - details defining mass loads and externally applied loads (wind, surrounding structures, common/special building usage)

- dimensions defining geometry and loading of individual structural members
- 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 structures
- relationship between component loads and supports and spans
- range of timber species and types that are suitable for the manufacture of timber wall frames, roof and floor trusses
- methods used to produce structural layout drawings and assembly drawings
- industry and specific organisational:
 - processes for producing designs for timber roof, wall and floor structures
 - formats for and inclusions of drawings and notes
- organisational procedures for preparing and documenting preparing and documenting designs 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
- code tables
- designs, plans, drawing views and notes for timber roof, wall and floor structures on which to base designs
- organisational procedures for preparing and documenting designs for timber roof, wall and floor structures.

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.

Links

Companion Volume implementation guides are found in VETNet -

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