



Australian Government

FWP40416 Certificate IV in Timber Truss and Frame Design

Release 2

FWP40416 Certificate IV in Timber Truss and Frame Design

Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 4.0.
Release 1	This version released with FWP Forest and Wood Products Training Package Version 2.0.

Qualification Description

This qualification is designed for job roles in the timber truss and frame sector of the forest and forest products industry.

Job roles

This qualification has one employment pathway for typical truss and frame manufacturing environments. This is:

- Designer (Timber truss and frame)

Licensing, legislative, regulatory, or certification requirements may apply to units in this qualification in some states & territories at the time of publication and may differ according to jurisdiction.

Some imported units in the elective bank may be subject to licensing, legislative, regulatory, or certification requirements. These units must be implemented in line with the licensing requirements outlined in the unit's parent Training Package.

The outcome of this qualification can satisfy the entry requirement into FWP50316 Diploma of Timber Truss and Frame Design. For those seeking a pathway into that qualification, the entry requirement is the successful achievement of the following units, or demonstration of equivalent competence:

- FWPCOT4202 Design timber structures
- FWPTMM4201 Construct prototypes and samples
- MSAPMSUP390A Use structured problem solving tools
- CCCCBC4001A Apply building codes and standards to the construction process for low rise building projects
- CPCSUS4001A Implement and monitor environmentally sustainable work practices.

Plus at least one of the following units:

- FWPTMM4205 Prepare and advise on a broad range of timber roof truss details using computers
- FWPTMM4206 Prepare and advise on a broad range of timber floor system
- FWPTMM4207 Prepare and advise on a broad range of timber wall frame details using computers.

Entry Requirements

The entry requirement for this qualification is the successful achievement of the following units contained in FWP30916 Certificate III Timber Truss and Frame Design and Manufacture or demonstration of equivalent competence:

- FWPCOT3204 Prepare and interpret sketches and drawings
- FWPCOT3214 Take off material quantities
- FWPCOT3218 Quote and interpret from manufactured timber product plans
- FWPCOT3220 Quote and interpret from computerised timber manufactured product plans
- FWPCOT3239 Create drawings using computer aided design systems.

Plus at least one of the following units:

- FWPTMM3204 Interpret designs to prepare timber roof truss drawings and documents using computers
- FWPTMM3205 Interpret designs to prepare timber floor system drawings and documents using computers
- FWPTMM3206 Interpret designs to prepare timber wall frame drawings and documents using computers.

Packaging Rules

To achieve this qualification, competency must be demonstrated in:

- 17 units of competency:
 - 3 core units plus
 - 14 elective units.

Elective units must ensure the integrity of the qualification's Australian Qualification Framework (AQF) alignment and contribute to a valid, industry-supported vocational outcome. The electives are to be chosen as follows:

- at least 1 unit from Group A
- at least 5 units from Group A and /or Group B
- the remaining units from Group A, B or C, the total of which may also include up to 3 units recommended for packaging at Certificate III, IV or Diploma level from this or any other endorsed Training Package or state/territory accredited course.

Elective units must be relevant to work undertaken in the truss and frame industry.

Core Units

BSBLED401	Develop teams and individuals
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FWPCOR4201	Monitor safety, health and environment policies and procedures
FWPCOR4203	Monitor quality and product care procedures

Elective Units

Group A

Forest

FWPTMM4205	Prepare and advise on a broad range of timber roof truss details using computers
FWPTMM4206	Prepare and advise on a broad range of timber floor system details using computers
FWPTMM4207	Prepare and advise on a broad range of timber wall frame details using computers

Group B

Forest

FWPCOT4202	Design timber structures
FWPTMM4208	Construct prototypes and samples for timber structures

Business

BSBLED501	Develop a workplace learning environment
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Manufacturing

MSMSUP390	Use structured problem-solving tools
MSS015011	Conduct a sustainability energy audit
MSS405086	Develop sustainable energy practices

Construction

CPCCBC4001A	Apply building codes and standards to the construction process for low rise building projects
CPCSUS4001A	Implement and monitor environmentally sustainable work practices

Group C

Forest

FWPCOT4203	Plan and coordinate product assembly
FWPTMM4202	Diagnose and calculate production costs
FWPTMM4203	Install and commission CNC software

Business

BSBCMM401	Make a presentation
BSBCUS401	Coordinate implementation of customer service strategies
BSBINM401	Implement workplace information system
BSBITS411	Maintain and implement digital technology
BSBMGT402	Implement operational plan
BSBPMG415	Apply project risk management techniques
BSBPMG522	Undertake project work

Construction

CPCCBC4004A	Identify and produce estimated costs for building and construction projects
CPCCBC4005A	Produce labour and material schedules for ordering
CPCCBC4024A	Resolve business disputes

CPCCCA3006B	Erect roof trusses
CPCCSV5010A	Interact with clients in a regulated environment
CPCCOHS2001 A	Apply OHS requirements, policies and procedures in the construction industry

Visual Arts, Crafts and Design

CUADES403	Research and apply techniques in spatial design
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Health and Safety

HLTAID006	Provide advanced first aid
HLTAID008	Manage first aid services and resources

Manufacturing

MSMSUP404	Coordinate maintenance
MSS402050	Monitor process capability
MSS403001	Review competitive systems and practices
MSS403010	Facilitate change in an organisation implementing competitive systems and practices
MSS404060	Facilitate the use of planning software systems in a work area or team
MSS404082	Assist in implementing a proactive maintenance strategy
MSS404084	Undertake process capability improvements

Training

TAEASS401	Plan assessment activities and processes
TAEASS402	Assess competence
TAEDEL401	Plan, organise and deliver group-based learning

TAEDEL402	Plan, organise and facilitate learning in the workplace
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Qualification Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWP40416 Certificate IV in Timber Truss and Frame Design Release 2	FWP40416 Certificate IV in Timber Truss and Frame Design Release 1	Updated to include revised units and superseded and deleted imported units	Equivalent qualification

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509f8d3d47>