Australian Government

FPI50411 Diploma of Timber Truss and Frame Design

Release 3

FPI50411 Diploma of Timber Truss and Frame Design

Modification History

Release 1.1

Updated equivalent imported core unit:

- BSBWHS503A Contribute to the systematic management of WHS risk replaces BSBOHS504B Apply principles of OHS risk management

Imported unit added to Group B elective bank:

- MSS015011A

One imported unit of competency updated:

- MSS405075A replaces MSACMT675A - Equivalent

Release 1.1

Eight imported units of competency updated:

- BSBCUS501C replaces BSBCUS501B - Equivalent
- BSBMGT516C replaces BSBMGT516B - Equivalent
- MSS405001A replaces MSACMS600A - Equivalent
- MSS405004A replaces MSACMS603A - Equivalent
- MSS402030A replaces MSACMT230A - Equivalent
- MSS404052A replaces MSACMT452A - Equivalent
- MSS405062A replaces MSACMT662A - Equivalent
- MSS405070A replaces MSACMT670A - Equivalent

Description

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

Pathways Information

This qualification has one employment pathway for typical operational environments of timber truss and frame. This is:

- Designer (Timber Truss & Frame)

Entry may be gained through progression from a lower level FPI qualification or recognition of existing industry experience or qualifications.

This qualification may be suited to an Australian Apprenticeship pathway.

Licensing/Regulatory Information

Native FPI units may be subject to state or territory licensing, legislative, regulatory or certification requirements.

Some imported units in the elective bank may be subject to state or territory codes, regulations, licences and/or permits. These units must be implemented in line with the licensing requirements outlined in the unit's parent Training Package.

Entry Requirements

Entry Requirements

The entry requirement for this qualification is the successful achievement of the following units contained in FPI40411 Certificate IV Timber Truss and Frame Design:

FPICOT4202B	Design timber structures
FPITMM4201B	Construct prototypes and samples
MSAPMSUP390A	Use structured problem solving tools
CPCCBC4001A	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:

FPITMM4205A	Prepare and advise on a broad range of timber roof truss details using computers
FPITMM4206A	Prepare and advise on a broad range of timber floor system
FPITMM4207A	Prepare and advise on a broad range of timber wall frame details using computers

or demonstration of equivalent competence

Note: The design unit selected will be determined by the industry sector and type of product being manufactured

Employability Skills Summary

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
The following table contains a summary of the employability skills for this qualification. This table should be interpreted in conjunction with the detailed requirements of each unit of competency packaged in this qualification. The outcomes described here are broad industry requirements that may vary depending on the packaging options.	

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	• Document performance • Articulate expected standards of performance • Adjust and communicate strategies to stakeholders • Communicate opportunities for improvement
Teamwork	• Manage team performance • Counsel individuals who continue to perform below expectations • Involve stakeholders and operational staff in risk management processes
Problem-solving	• Make decisions to overcome problems • Deal with complex and non-routine difficulties • Identify potential factors impacting on the effectiveness of controls
Initiative and enterprise	• Develop strategies to manage organisational systems • Develop, procure and use resources effectively • Identify factors contributing to risk
Planning and organising	• Develop work plans • Consider areas identified for further improvement when undertaking planning • Ensure plans achieve agreed specifications
Self-management	• Manage own performance and development • Measure and maintain personal performance in varying work conditions • Maintain appropriate work-life balance
Learning	• Provide on the job coaching to improve performance • Monitor and coach individuals with poor performance • Lead and manage continuous improvement systems • Conduct formal and informal research
Technology	• Source tools to assist in analysing potential hazards • Use technology efficiently and effectively to manage work priorities and commitments

Packaging Rules

Total number of units = 19

- 5 core units plus
- 14 elective units, consisting of:
  - 5 units from Group A
  - 6 units from Group B
  - up to 3 units from Group A and/or Group B
  - up to 3 units recommended for packaging at Certificate IV, Diploma or Advanced 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

Field	Unit Code	Unit Name
Business	BSBCUS501C	Manage quality customer service
	BSBMGT502B	Manage people performance
	BSBMGT516C	Facilitate continuous improvement
	BSBWHS503A	Contribute to the systematic management of WHS risk
	BSBWOR501B	Manage personal work priorities and professional development

GROUP A ELECTIVE UNITS

Field	Unit Code	Unit Name
Forest	FPITMM5201B	Assess product feasibility of designs
	FPITMM5202B	Develop, trial and evaluate prototypes
	FPITMM5203B	Generate and transfer complex computer-aided drawings and specifications
	FPITMM5204B	Manage product design

| Construction | CPCCSV5011A | Apply building codes and standards to residential buildings |
| | CPCCSV5012A | Assess timber-framed designs for one and two storey buildings |

GROUP B ELECTIVE UNITS

Field	Unit Code	Unit Name
Forest	FPICOT5203B	Manage installation and commissioning of equipment
	FPICOT5204B	Organise enterprise maintenance programs
	FPITMM4202B	Diagnose and calculate production costs
	FPITMM5205B	Optimise CNC operations
	FPITMM5206B	Plan production
Business	BSBAUD501B	Initiate a quality audit
	BSBINM501A	Manage an information or knowledge management system
	BSBLED501A	Develop a workplace learning environment
	BSBMGT515A	Manage operational plan
	BSBMKG501B	Identify and evaluate marketing opportunities
	BSBSUS501A	Develop workplace policy and procedures for sustainability
Construction	CPCCSV5015A	Assess structural requirements for domestic scale buildings
Manufacturing	MSS405001A	Develop competitive systems and practices for an organisation
	MSS405004A	Develop business plans in an organisation implementing competitive systems and practices

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MSS402030A	Apply cost factors to work practices
MSS404052A	Apply statistics to operational processes
MSACMT630A	Optimise cost of product
MSACMT631A	Undertake value analysis of product costs in terms of customer requirements
MSS405062A	Develop a documentation control strategy for an organisation
MSS015011A	Conduct a sustainability energy audit
MSS405070A	Develop and manage sustainable energy practices
MSS405075A	Facilitate the development of a new product
MSAPMSUP390A	Use structured problem solving tools

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