



Australian Government

FPI30911 Certificate III in Timber Truss and Frame Design and Manufacture

Release 3

FPI30911 Certificate III in Timber Truss and Frame Design and Manufacture

Modification History

Release 2

Two new units added to elective bank:

- FPICOT3263
- FPICOT3264

Imported non-equivalent units updated:

- CPCCCM1015A replaces CPCCCM1005A – Not equivalent
- HLTFA311A replaces HLTFA301C – Not equivalent
- HLTFA412A replaces HLTFA402C – Not equivalent

Release 1.1

Five imported units of competency updated:

- BSBCUS301B replaces BSBCUS301A - Equivalent
- BSBCUS402B replaces BSBCUS402A - Equivalent
- MSS402001A replaces MSACMS200A - Equivalent
- MSS403032A replaces MSACMT432A - Equivalent
- MSS403051A replaces MSACMT451A - Equivalent

Description

Qualification Notes

Specialised Job Roles

RTO please note: Insert specialisation (job role) on certificate only if the industry recommended electives listed below are achieved

Industry strongly recommends the selection of particular electives to meet different job roles

Designer

Recommended electives for those working in design are:

- 1 unit from Group A plus
- 5 units from Group A or B plus
- 2 units from Group A, B or C or up to 2 relevant units may be selected from units recommended for packaging at Certificate II, Certificate III or Certificate IV in any endorsed Training Package or State/Territory accredited course

Production fabricator Recommended electives for those working in production are :

- 6 units from Group A, B or C plus
- 2 units from Group A, B or C or up to 2 relevant units may be selected from units recommended for packaging at Certificate II, Certificate III or Certificate IV in any endorsed Training Package or State/Territory accredited course

Pathways Information

This qualification has two employment pathways for typical operational environments of timber truss and frame design. These are:

- Designer (Timber Truss & Frame)
- Production Fabricator (Timber Truss & Frame)

Pathways advice

There is an entry requirement into FPI40411 Certificate IV in Timber Truss and Frame Design. For those seeking a pathway to this qualification, recommended elective units are:

| | |
|-------------|---|
| FPICOT3204B | Prepare and interpret sketches and drawings |
| FPICOT3214B | Take off material quantities |
| FPICOT3218B | Quote and interpret from manufactured timber product plans |
| FPICOT3220B | Quote and interpret from computerised timber manufactured product plans |
| FPICOT3239B | Create drawings using computer aided design systems |

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

There are no entry requirements.

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 | <ul style="list-style-type: none"> • Communicate with management • Gather, convey and receive information • Convey instructions accurately • Establish and maintain communication with others |
| Teamwork | <ul style="list-style-type: none"> • Contribute to the effectiveness of the work team • Participate in and facilitate the work team • Make constructive contributions to the work team |
| Problem-solving | <ul style="list-style-type: none"> • Solve routine problems • Detect, assess and report hazards in the work area • Review and report factors affecting the achievement of work tasks to appropriate personnel |
| Initiative and enterprise | <ul style="list-style-type: none"> • Select equipment appropriate to work task • Grade materials to best 'end use' • Identify and assess organisational environmental goals |
| Planning and organising | <ul style="list-style-type: none"> • Plan potential of materials to provide the highest value added return • Plan product recovery to optimise resource value and minimise waste • Prepare products for despatch |
| Self-management | <ul style="list-style-type: none"> • Utilise own contribution to the work team • Check own role and responsibilities with appropriate personnel • Identify and prioritise work tasks within designated timeframes |
| Learning | <ul style="list-style-type: none"> • Identify opportunities for professional development • Actively seek feedback on performance • Seek appropriate support to assist and improve own performance |
| Technology | <ul style="list-style-type: none"> • Use relevant equipment • Maintain and adjust machinery and equipment |

Packaging Rules

Total number of units = 13

- 5 core units plus
- 8 Elective units, with at least 6 from the list below. Up to 2 relevant units may be selected from units recommended for packaging at Certificate II, Certificate III or Certificate IV in any endorsed Training Package or State/Territory accredited course

Elective units must be relevant to work undertaken in the timber truss and frame design sector of the industry

CORE UNITS

| Field | Unit Code | Unit Title |
|-------|-------------|--|
| Core | FPICOR2201B | Work effectively in the forest and forest products industry |
| | FPICOR2202B | Communicate and interact effectively in the workplace |
| | FPICOR3201B | Implement safety, health and environment policies and procedures |
| | FPICOR3202B | Conduct quality and product care procedures |
| | BSBFLM312C | Contribute to team effectiveness |

GROUP A ELECTIVE UNITS

| Field | Unit Code | Unit Title |
|---|-------------|---|
| Specialist Design units. (one unit from this group must be selected to pursue a design pathway at Cert IV) | FPITMM3204A | Interpret designs to prepare timber roof truss drawings and documents using computers |
| | FPITMM3205A | Interpret designs to prepare timber floor system drawings and documents using computers |
| | FPITMM3206A | Interpret designs to prepare timber wall frame drawings and documents using computers |

GROUP B ELECTIVE UNITS

| Field | Unit Code | Unit Title |
|--------|-------------|---|
| Forest | FPICOT3204B | Prepare and interpret sketches and drawings |
| | FPICOT3214B | Take off material quantities |

| | | |
|---------------------|-------------|---|
| | FPICOT3218B | Quote and interpret from manufactured timber product plans |
| | FPICOT3220B | Quote and interpret from computerised timber manufactured product plans |
| | FPICOT3239B | Create drawings using computer aided design systems |
| | FPICOT4202B | Design timber structures |
| Construction | CPCCBC4001A | Apply building codes and standards to the construction process for low rise building projects |

GROUP C ELECTIVE UNITS

| Field | Unit Code | Unit Title |
|---------------|------------------|---|
| Forest | FPICOR3204B | Visually assess materials |
| | FPICOT2235A | Assess timber for manufacturing potential |
| | FPICOT3234B | Cut material using CNC sizing machines |
| | FPICOT3235B | Machine material using CNC machining and processing centres |
| | FPICOT3236B | Coordinate stock control procedures |
| | FPICOT3241B | Assemble timber wall frames |
| | FPICOT3242B | Lay up timber roof trusses |
| | FPICOT3243B | Operate a truss press |
| | FPICOT3264 | Build and maintain timber stacks |
| | FPICOT4203B | Plan and coordinate product assembly |
| | FPICOT4204B | Schedule and coordinate load shifting |
| | FPITMM2203A | Read and interpret timber truss, floor and/or frame fabrication plans |
| | FPITMM3207A | Set up timber floor trusses |

| | | |
|--------------------------|--------------|---|
| Business | BSBCUS301B | Deliver and monitor a service to customers |
| | BSBCUS402B | Address customer needs |
| | BSBFLM305C | Support operational plan |
| | BSBINM301A | Organise workplace information |
| Construction | CPCCBC4014A | Prepare simple building sketches and drawings |
| | CPCCCM1015A | Carry out measurements and calculations |
| Health and Safety | HLTFA311A | Apply first aid |
| | HLTFA412C | Apply advanced first aid (unit has HLTFA311A Apply first aid as a prerequisite) |
| Manufacturing | FPICOT3263 | Maintain and contribute to energy efficiency |
| | MSS402001A | Apply competitive systems and practices |
| | MSS403032A | Analyse manual handling processes |
| | MSS403051A | Mistake proof an operational process |
| | MSAPMSUP390A | Use structured problem solving tools |
| Training | TAEDEL301A | Provide work skill instruction |
| Transport | TLIA3018A | Organise despatch operations |