



**Australian Government**

# **FWPTMM4209 Interpret details of timber roof trusses to inform design of plans and production documents**

**Release: 1**

## FWPTMM4209 Interpret details of timber roof trusses to inform design of plans and production documents

### 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 interpret and apply a broad range of information into the design of timber roof trusses. It includes applying detailed information for the preparation of timber roof truss drawings, production documents and installation instructions using custom software for timber systems design.

The unit applies to timber systems designers and fabricators who use their own judgment to deal with predictable and unpredictable problems and decide on solutions to a range of complex problems during the documentation preparation process.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

### Pre-requisite Unit

Nil

### Unit Sector

Timber Manufacturing Products (TMM)

### 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. Prepare for design of layout plans            | 1.1 Read and interpret building plans and specifications to determine and verify applied loads and other design factors<br>1.2 Interpret and apply relevant building codes, regulations and standards for timber roof truss design<br>1.3 Confirm workplace quality requirements for the design of timber |

| Elements                                            | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i>    | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                     | roof trusses<br>1.4 Consult with stakeholders/clients to clarify design requirements<br>1.5 Identify and resolve design, production and/or installation issues outside software limitations, and seek appropriate advice<br>1.6 Check custom computer software for currency                                                                                                                                                                                                                                                                                     |
| 2. Create and review design options                 | 2.1 Design and draft a timber roof truss layout plan<br>2.2 Review design to confirm it meets client requirements and complies with appropriate building regulations, codes and standards<br>2.3 Review layout to confirm it optimises efficiency of material use and production procedures<br>2.4 Amend design options if necessary                                                                                                                                                                                                                            |
| 3. Design production and installation documentation | 3.1 Confirm dimensions, span measurements and timber roof truss layout from building plans and specifications<br>3.2 Input applied spans, loads and data into software and create a timber roof truss layout<br>3.3 Prepare production and client installation documentation according to workplace quality requirements<br>3.4 Certify timber roof truss design complies with relevant building regulations, codes and practices, according to regulatory and workplace requirements<br>3.5 Store drawings and documentation 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                                                                                                                                             |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reading | <ul style="list-style-type: none"> <li>Select and extract information from a range of documents and diagrammatic texts</li> </ul>                       |
| Writing | <ul style="list-style-type: none"> <li>Apply interrelationships between written and diagrammatic forms to produce installation documentation</li> </ul> |

## Unit Mapping Information

| Code and title<br>current version                                                                                     | Code and title<br>previous version                                                                              | Comments                                                                                                                                                                                                                                                              | Equivalence status |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| FWPTMM4209<br>Interpret details of<br>timber roof trusses to<br>inform design of<br>plans and production<br>documents | FWPTMM4205<br>Prepare and advise on<br>a broad range of<br>timber roof truss<br>details using<br>computers      | Redesigned unit that<br>includes content from<br>FWPTMM4205 Prepare<br>and advise on a broad<br>range of timber roof truss<br>details using computers<br>FWPTMM3204 Interpret<br>designs to prepare timber<br>roof truss drawings and<br>documents using<br>computers | Not Equivalent     |
| FWPTMM4209<br>Interpret details of<br>timber roof trusses to<br>inform design of<br>plans and production<br>documents | FWPTMM3204<br>Interpret designs to<br>prepare timber roof<br>truss drawings and<br>documents using<br>computers | Redesigned unit that<br>includes content from<br>FWPTMM4205 Prepare<br>and advise on a broad<br>range of timber roof truss<br>details using computers<br>FWPTMM3204 Interpret<br>designs to prepare timber<br>roof truss drawings and<br>documents using<br>computers | Not Equivalent     |

## Links

Companion Volumes, including Implementation Guides, are available at VETNet: -  
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>