



Australian Government

Assessment Requirements for FWPTMM4201 Construct prototypes and samples

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPITMM4201B Construct prototypes and samples, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including Required Skills and Knowledge, Evidence Guide and Range Statement

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:

- construct at least two prototypes or samples, in line with an individual work order and construction plan for each including:
 - roof, wall and floor frames/trusses
 - staircases
 - door and window frames
 - structural beams
 - specialised pallets or crates
- review each prototype or sample for effectiveness of purpose and efficiency of construction methods and complete a detailed and accurate report on construction processes, problems and recommended changes.

Knowledge Evidence

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

- environmental protection practices for forest products factory settings:
 - reducing water and energy use
 - cleaning of plant, tools and equipment

- disposing of, recycling and reusing timber and other waste
- rough and dressed timber native and imported species, timber grades and treatments, boards and board products, laminated beams
- common timber defects
- products and their use
- construction sequences
- construction componentry and construction standards
- industry standard cross-sections and lengths
- tools, equipment and hardware used to construct prototypes and samples; their purpose, features and operation:
 - measuring equipment
 - assembly jigs
 - nail plate presses
 - nail and staple guns
 - compressor or compressed air supply
 - marking equipment
 - strapping equipment
- organisational procedures specific to constructing prototypes and samples:
 - workplace health and safety
 - use of equipment
 - communication reporting lines
 - recording and reporting construction processes, problems and recommendations for change.

Assessment Conditions

The following resources must be made available:

- tools and equipment used to construct prototypes and samples:
 - measuring equipment
 - assembly jigs
 - nail plate presses
 - staple guns
 - nail guns
 - compressor or compressed air supply
 - marking equipment
 - strapping equipment
- assembly hardware:
 - nailing plates
 - gang nails
 - nail gun nails
 - staples

- temporary bracing
- personal protective equipment suitable for constructing prototypes and samples
- pre-cut sections of timber
- work order and construction plan with specifications for the assembly of prototypes and samples
- template reports for recording construction processes, problems and recommendations for change
- relevant personnel for the purposes of communicating information
- organisational procedures for constructing prototypes and samples

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.
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Links

Companion Volume implementation guides are found in VETNet -

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