



**Australian Government**

**Assessment Requirements for  
FWPCOT3240 Grade heavy  
structural/engineered products**

**Release: 1**

# Assessment Requirements for FWPCOT3240 Grade heavy structural/engineered products

## Modification History

Release	Comment
1	Replaces equivalent unit FPICOT3240B Grade heavy structural/engineered products, 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:

- visually evaluate different types of heavy structural and engineered product for classification into strength and appearance grades, in line with an individual work order for each grading job
- heavy structural and engineered products for classification are to be chosen from the following list:
  - sleepers
  - crossings
  - mine guides
  - piles
  - cross arms for overhead lines
  - decking for wharves and bridges
  - poles
- after each job, complete a basic report on assessment outcomes.

## Knowledge Evidence

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

- environmental protection practices for disposing of, recycling and reusing timber
- features and uses of heavy structural and engineered products:

- sleepers, crossings, mine guides, piles and cross arms for overhead lines
- decking for wharves and bridges
- poles
- typical timber defects and how they affect ability to produce a quality finished product:
  - incorrect moisture content
  - warp
  - wane
  - cupping
  - shakes
  - insect defects
  - knots
  - resin pockets
- typical work flow processes and techniques used to grade heavy structural and engineered products
- range of industry standard lengths and cross sections and applicable terminology
- range of industry standard strength and appearance grades and applicable terminology
- markings used on heavy structural and engineered products to identify grades
- typical flow of material supply in and out of the grading area
- typical industry and organisation specific storage layout and storage categories for heavy structural and engineered products
- methods to label heavy structural and engineered products for storage locations and common terms used
- purpose, features and operation of equipment used to grade heavy structural and engineered products:
  - moisture meters
  - lifting equipment for the movement of material
- organisational procedures specific to grading heavy structural and engineered products:
  - workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment
  - communication reporting lines
  - recording and reporting assessment outcomes and distribution problems.

## Assessment Conditions

The following resources must be made available:

- moisture meters
- lifting equipment
- personal protective equipment suitable for grading heavy structural and engineered products
- a diverse range of heavy structural and engineered products including:
  - sleepers, crossings, mine guides, piles and cross arms for overhead lines
  - decking for wharves and bridges

- poles
- work order with specific instructions for grading and transferring heavy structural and engineered products to downstream processing or storage
- organisational procedures for grading heavy structural and engineered products.

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.

## **Links**

Companion Volume implementation guides are found in VETNet -

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