



**Australian Government**

**Assessment Requirements for  
FWPCOT3247 Select timber for forestry  
operations**

**Release: 1**

# Assessment Requirements for FWPCOT3247 Select timber for forestry operations

## Modification History

Release	Comment
1	<p>Replaces equivalent FPICOT3247B Select timber for forestry operations, 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.</p> <p>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</p>

## 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:

- follow organisational policies and procedures for selecting timber
- undertake visual inspection and identify: defects, contamination, timber colours, insect attack, surface finishes, loose surfaces, bubbles, holes, breakages, machine caused defects
- assess timber for growth patterns using appropriate methods including make-up of a tree: bark (cortex), phloem, cambium layer, sapwood (xylem), heartwood (truewood), pith (medulla), medullary rays, earlywood, latewood, growth rings, cellulose, hemicelluloses, lignin extractives
- assess timber for durability: strength, hardness and rating for use, classification and measurement
- assess timber structures: hardwood (pored wood) or softwood (non-pored wood) and cell structured timber, including vessels, fibres, ray cells, pits, tracheids, texture, seasoning methods
- assess timber characteristics: colour, density, texture, grain, figure, qualities, uses
- identify faults and features of timber: bow, spring, twist, warp, wane, cupping, shakes, insect defects, fungi, knots, resin pockets, wild grain, sloping grain
- measure moisture content of timber
- prepare products relating to a customer order via various means of transport

- record and report on outcomes of timber selection.

## Knowledge Evidence

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

- organisational policies and procedures for selecting timber
- defects in timber: contamination, timber colours, insect attack, surface finishes, loose surfaces, bubbles, holes, breakages, machine caused defects
- procedures for assessing timber for growth, durability, cell structure and characteristics
- the working properties of timber: timber shrinkage, effects of light, density and deterioration of the timber, compressive and tensile stresses, modulus of elasticity, modulus of rupture, deformation, creep, surface hardness
- faults and features of timber
- acceptable moisture content of timber
- sawing patterns (live-sawn, back sawn, quarter sawn) and their suitability for different timber.

## Assessment Conditions

The following resources must be made available:

- tools and equipment used to make timber selection
- timber for selection and classification
- relevant personnel for the purposes of communicating information
- documents, spreadsheets and commonly used proforma documents
- personal and protective equipment for selecting timber in forestry operations.

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