



Australian Government

Assessment Requirements for FWPSAW3201 Treat timber

Release: 1

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Modification History

Release	Comment
1	<p>Replaces equivalent FPISAW3201B Treat timber, 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:

- complete chemical timber treatment processes in line with an individual work orders prescribing different timber types selected from the following list:
 - native timber species
 - imported timber species
 - dressed timber, stress and non-stress graded timber
 - in-the-rough timber
 - sleepers
 - logs, rounded poles
 - beams, laminated beams
- across the above jobs, check, adjust and maintain the strength and volume types of preservative solutions including:
 - water-borne solutions
 - oil-based solutions
 - solvent-based solutions
- at the completion of each of the above jobs, complete operator maintenance, store chemicals and report on stock levels.

Knowledge Evidence

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

- environmental protection practices for chemically treating timber:
 - reducing water and energy use
 - water management strategies
 - cleaning plant, tools and equipment
 - disposing of hazardous substances
- storage layout and categories for:
 - raw materials
 - storing finished boards
 - chemicals and preservative solutions
- purpose of treating timber
- characteristics of timber types, effects of the treatment process and appropriate range of temperatures
- properties, at a basic level of understanding, of chemicals used to treat timber and their purpose:
- water-borne, oil and solvent based preservative solutions with chemical treatments including:
 - creosote and modified creosote-based
 - copper chrome arsenate salts (CCA)
 - compounds of boron and fluoride salts
 - alkaline copper quaternary (ACQ)
 - light organic solvent-borne preservative (LOSP)
 - micronised copper azole (MCA or Tanalith E)
- personal safety risks associated with handling and using chemicals and methods used to minimise these
- methods used to safely store chemicals
- typical work flow processes and techniques for chemically treating timber:
 - full cell
 - modified cell
 - empty cell
 - immersion
 - rueping
 - double vacuum
 - dip diffusion
 - vat and sprays
- methods used to brand treated timber and range of industry and organisation markings:
 - burning
 - hammer impressions
 - ink
 - tags
- purpose, features and operation of equipment used to chemically treat timber including from the following list:

- treatment cylinders
- working tanks
- mix tanks
- concentrate storage tanks
- effluent tanks
- vacuum pump and seals
- organisational procedures specific to chemically treating timber:
 - workplace health and safety with particular emphasis on equipment lock out, use of personal protective equipment and handling hazardous substances
 - communication reporting lines
 - recording and reporting chemical stock levels, processes and equipment faults.
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Assessment Conditions

The following resources must be made available:

- one or more of the following types of equipment used to chemically treat timber:
 - treatment cylinders
 - working tanks
 - mix tanks
 - concentrate storage tanks
 - effluent tanks
- branding equipment and consumables
- personal protective equipment suitable for chemically treating timber
- one or more of the following types of timber to be chemically treated:
 - native timber species
 - imported timber species
 - dressed timber
 - in-the-rough timber
 - stress and non-stress graded timber
 - sleepers
 - logs
 - rounded poles
 - beams
 - laminated beams
- one or more of the following types of preservative solution:
 - water-borne solutions
 - oil-based solutions
 - solvent-based solutions
- manufacturers 'safety data sheets, or equivalent plain English information, for chemicals and preservative solutions

- work order with specific instructions for chemical treatment of timber
- template documents for recording chemical stock levels, processes and equipment faults
- organisational procedures for chemically treating timber
- relevant personnel for the purposes of communicating information
- a suitably licensed person to monitor and supervise handling of CCA during assessment.

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>