



**Australian Government**

# **Assessment Requirements for FWPSAW3242 Treat timber**

**Release: 1**

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## Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 5.0.

## Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that, on at least on one occasion, the individual has:

- completed the chemical treatment process according to an individual work order for one of the following timber types:
  - timber from native species
  - timber from imported species
  - dressed timber
  - stress and non-stress graded timber
  - in-the-rough timber
  - sleepers
  - logs, rounded poles
  - beams, laminated beams
- during the treatment process, checked, adjusted and maintained the strength and volume for one of the following types of preservative solutions:
  - water-borne solutions
  - oil-based solutions
  - solvent-based solutions
- during the treatment process, complied with:
  - workplace health and safety requirements for chemically treating timber
  - environmental protection procedures for chemically treating timber
- at the completion of the treatment process, completed each of the following three tasks:
  - conducted routine operator equipment maintenance
  - safely stored chemicals
  - reported on stock levels.

## Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- 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 the following water-borne, oil-based and solvent-based chemicals used to treat timber, and their purpose:
  - creosote and modified creosote-based
  - copper chrome arsenate (CCA) salts
  - compounds of boron and fluoride salts
  - alkaline copper quaternary (ACQ)
  - light organic solvent-borne preservative (LOSP)
  - micronised copper azole (MCA or Tanalith E)
- risks and hazards associated with handling and using chemicals, and methods used to minimise these
- safety sign and symbols related to chemical use in the workplace
- typical workflow 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 treat timber chemically:
  - treatment cylinders
  - working tanks
  - mix tanks
  - concentrate storage tanks
  - effluent tanks
  - vacuum pump and seals
- storage layout and categories for:
  - raw materials

- storing finished timber
- chemicals and preservative solutions
- environmental protection practices for chemically treating timber:
  - disposing of hazardous substances
  - reducing water and energy use
  - water management strategies
  - cleaning plant, tools and equipment
- workplace procedures for chemically treating timber:
  - workplace health and safety, with particular emphasis on equipment lock-out, use of personal protective equipment (PPE), safety data sheets, handling, transporting and storing chemicals and hazardous substances, and responding to chemical-related incidents
  - communication reporting lines
  - recording and reporting chemical stock levels, processes and equipment faults.

## Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated in a timber treatment plant or an environment that accurately represents workplace conditions
- resources, equipment and materials:
  - one or more of the following types of equipment used to treat timber chemically: treatment cylinders, working tanks, mix tanks, concentrate storage tanks, effluent tanks
  - branding equipment and consumables
  - PPE suitable for chemically treating timber
  - timber to be chemically treated
  - one or more of the following types of preservative solution: water-borne solutions, oil-based solutions or solvent-based solutions
- specifications:
  - manufacturer safety data sheets or equivalent plain English information for chemicals and preservative solutions
  - work order with specific instructions for the chemical treatment of timber
  - template documents for recording chemical stock levels, processes and equipment faults
  - workplace procedures for chemically treating timber.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards. A suitably licensed person must be present to monitor and supervise the handling of CCA during assessment.

## **Links**

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