Modification history

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| Release | Comments |
| Release 2 | This version released with FWP Forest and Wood Products Training Package Version 5.0. |
| Release 1 | This version released with FWP Forest and Wood Products Training Package Version 2.0. |

| FWPSAW3201 | Treat timber |
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| Application | This unit of competency describes the skills and knowledge required to chemically treat timber including planning for chemically treating timber, safely handling and storing chemicals, operating treatment equipment, and undertaking basic maintenance of treatment equipment.The unit applies to individuals who treat timber in a timber treatment plant or sawmill. Specific job roles can include treatment plant operator, kiln operator or timber products technician.Licensing, legislative, regulatory, or certification requirements apply to this unit in some states and territories at the time of publication and may differ according to jurisdiction.In Victoria, to comply with licence/permit requirements, organisations must ensure that employees working with Copper Chrome Arsenate (CCA) demonstrate competence in this unit (FWPSAW3201 Treat timber), or that persons working with CCA do so under the direct supervision (sight and sound) of a trained and authorised person. For regulatory information and details in other states and territories refer to the state or territories licensing body. |
| Prerequisite Unit | Nil  |
| Unit Sector | Sawmilling and Processing |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Prepare for treating timber | 1.1 Review and check work order, workplace health and safety requirements, environmental protection practices and emergency procedures for treating timber 1.2 Identify and report hazards and use personal protective equipment according to workplace requirements and health and safety legislation to maintain safe work practices1.3 Obtain chemicals and type and quantity of timber for treatment from storage1.4 Plan treating cycles according to work order |
| 2. Use equipment to treat timber | 2.1 Complete pre-start-up equipment checks to ensure operational effectiveness2.2 Identify water requirements and check to ensure treatment process requirements are met2.3 Test moisture content of timber according to workplace procedures2.4 Check, adjust and maintain strength and volume of preservative solution at specified strength and volume2.5 Bring treating plant to full operating condition and regularly check operating parameters to ensure optimum output2.6 Load timber into treatment vessel and complete treatment cycles2.7 Brand treated timber in line with organisational procedures2.8 Safely handle treated timber and transfer to the storage area2.9 Record outcomes of timber treatment process and report to appropriate personnel |
| 3. Complete operator maintenance | 3.1 Lock out equipment according to workplace safety procedures 3.2 Conduct basic routine checks and maintenance of treatment equipment according to manufacturer specifications3.3 Store chemicals according to workplace safety procedures and report on stock levels3.4 Record faults or incidents related to treatment equipment and chemical use and storage and report to appropriate personnel |

| Foundation SkillsThis section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria. |
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| Skill | Description |
| Reading | * Extract essential information from safety data sheets, or equivalent plain English information on safe use, handling, transport and disposal of timber treatment chemicals
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| Writing | * Accurately complete basic workplace forms and records for chemical stock levels, processes and equipment faults
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| Oral Communication | * Employ active listening and questioning to clarify the content of work orders
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| Numeracy | * Perform basic mathematical calculations to determine routine solution strengths and retention rates for preservative solutions
* Complete basic measurements of moisture content in timber
* Identify quantities of required timber within work orders and count numbers for treatment
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| Navigate the world of work | * Identify main tasks, responsibilities and boundaries of own role
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| Interact with others | * Use modes of communication suitable to purpose to confirm and clarify understanding
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| Get the work done | * Recognise and respond to routine problems
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| Unit Mapping Information |
| Code and title current version | Code and title previous version | Comments | Equivalence status |
| FWPSAW3201 Treat timberRelease 2 | FWPSAW3201 Treat timberRelease 1 | Rewarded Application statement and Performance Evidence for clarity; updated requirements regarding workplace health and safety and environmental protection in Performance Criteria and Performance Evidence to match Knowledge Evidence; updated Foundation Skills. | Equivalent |

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

| TITLE | Assessment requirements for FWPSAW3201 Treat timber |
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| Performance Evidence |
| An individual demonstrating competency must satisfy all 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 the individual 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 the individual 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 the individual completed each of the following three tasks:
* conducted routine operator equipment maintenance
* safely stored chemicals
* reported on stock levels.
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| Knowledge Evidence |
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| 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:* 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 timber
* 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 the following water-borne, oil and solvent-based chemicals used to treat timber and their purpose:
* 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)
* 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
* workplace procedures for chemically treating timber:
* workplace health and safety with particular emphasis on equipment lockout, use of personal protective equipment (PPE), safety data sheets, handling, transporting and storing chemicals hazardous substances and responding to chemical-related incidents
* communication reporting lines
* recording and reporting chemical stock levels, processes and equipment faults.
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| Assessment Conditions |
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| Assessment of the skills in this unit of competency 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. |

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