



**Australian Government**

# **FWPCOT3287 Operate CNC equipment for grinding, tensioning and levelling saw blades**

**Release: 1**

# FWPCOT3287 Operate CNC equipment for grinding, tensioning and levelling saw blades

## Modification History

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

## Application

This unit of competency describes the skills and knowledge required to set up and operate computer numerical control (CNC) equipment for grinding, tensioning and levelling saw blades.

The unit applies to individuals who operate CNC equipment for grinding, levelling and tensioning saw blades in a saw technician workshop or sawmill for sawmilling operations.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

## Pre-requisite Unit

Nil

## Unit Sector

Common Technical (COT)

## Elements and Performance Criteria

| Elements                                         | Performance Criteria                                                                                                                                                                                                                                           |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                         |
| 1. Prepare for work                              | 1.1 Review work order to determine job requirements and, where required, seek clarification from appropriate personnel<br>1.2 Review workplace health and safety requirements, including the use of personal protective equipment, equipment lock-out and safe |

| Elements                                         | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                  | <p>manual handling techniques</p> <p>1.3 Identify, assess and take actions to mitigate risks and hazards associated with operating CNC equipment</p> <p>1.4 Identify and implement workplace procedures for minimising waste material and maximising energy efficiency</p> <p>1.5 Obtain tools, equipment and measuring devices needed for the work according to established procedures, and check for correct operation and safety</p> <p>1.6 Select and inspect saw blades and determine suitability for machining</p>                                      |
| 2. Set up CNC equipment                          | <p>2.1 Set CNC program to job requirements</p> <p>2.2 Check safety equipment, including emergency stops, gauges, guards and controls</p> <p>2.3 Set and adjust equipment according to job requirements and manufacturer instructions</p> <p>2.4 Check CNC equipment, cutting tools and jigs for safe and effective operation</p> <p>2.5 Conduct trial runs to check equipment operation, test and prove CNC program and assess quality of finished work</p> <p>2.6 Make final adjustments to CNC programs and equipment according to workplace procedures</p> |
| 3. Operate CNC equipment                         | <p>3.1 Operate and monitor equipment to ensure product quality and output</p> <p>3.2 Identify and report problems with the required work to appropriate personnel</p> <p>3.3 Reuse, recycle or dispose of items that do not meet quality requirements</p> <p>3.4 Comply with any authorised changes in working procedures</p>                                                                                                                                                                                                                                 |
| 4. Finalise operation and maintain equipment     | <p>4.1 Clean work area and leave in a safe condition according to workplace procedures</p> <p>4.2 Perform routine maintenance according to workplace and manufacturer instructions</p> <p>4.3 Tag and report faulty and/or defective equipment</p> <p>4.4 Collect and store unused hardware according to workplace</p>                                                                                                                                                                                                                                        |

| Elements                                         | Performance Criteria                                                                                                                                                                                                                                                    |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                  |
|                                                  | <p>procedures</p> <p>4.5 Dispose of waste and scrap materials according to workplace procedures</p> <p>4.6 Check and replenish consumables</p> <p>4.7 Record and report production outcomes, equipment faults and maintenance requirements to appropriate personnel</p> |

## Foundation Skills

*This 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.*

| Skill                      | Description                                                                                                                                                                            |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reading                    | <ul style="list-style-type: none"> <li>Extracts essential information from operational manuals to determine software parameters of CNC equipment</li> </ul>                            |
| Writing                    | <ul style="list-style-type: none"> <li>Prepares routine written reports using the required format, language and structure</li> </ul>                                                   |
| Oral communication         | <ul style="list-style-type: none"> <li>Employs active listening and questioning to clarify content of work orders</li> </ul>                                                           |
| Numeracy                   | <ul style="list-style-type: none"> <li>Uses standard measures to record calibration outcomes</li> <li>Interprets graphical and statistical data used in calibration process</li> </ul> |
| Navigate the world of work | <ul style="list-style-type: none"> <li>Understands main tasks, responsibilities and boundaries of own role</li> </ul>                                                                  |
| Interact with others       | <ul style="list-style-type: none"> <li>Uses modes of communication suitable to purpose to confirm and clarify understanding</li> </ul>                                                 |
| Get the work done          | <ul style="list-style-type: none"> <li>Recognises and responds to routine problems</li> </ul>                                                                                          |

## Unit Mapping Information

| Code and title current version | Code and title previous version | Comments | Equivalence status |
|--------------------------------|---------------------------------|----------|--------------------|
|                                |                                 |          |                    |

|                                                                                                      |                |          |                    |
|------------------------------------------------------------------------------------------------------|----------------|----------|--------------------|
| FWPCOT3287<br>Operate CNC<br>equipment for<br>grinding,<br>tensioning and<br>levelling saw<br>blades | Not applicable | New unit | No equivalent unit |
|------------------------------------------------------------------------------------------------------|----------------|----------|--------------------|

## Links

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