Modification history

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

| FWPCOT3XXX | Identify levelling and tensioning requirements for saw blades |
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| Application | This unit of competency describes the skills and knowledge required to identify the levelling and tensioning requirements for circular, narrow and wide band saw blades that have been removed from the sawing machine. The unit applies to individuals who identify the levelling and tensioning requirements for circular, narrow and wide band saw blades used in 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 occupational licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Prerequisite Unit | Nil  |
| Unit Sector | Common TechnicalSawmilling and ProcessingWood MachiningSaw technology |

| 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 to identify levelling and tensioning requirements | 1.1 Review work order to determine job requirements and where required seek clarification from appropriate personnel1.2 Identify and apply workplace health and safety requirements, including use of personal protective equipment and safe manual handling techniques, throughout the work1.3 Identify, assess and take actions to mitigate risks and hazards associated with handling and inspecting saw blades1.4 Identify and implement workplace procedures for minimising waste material and maximising energy efficiency |
| 2. Inspect blade  | 2.1 Handle saw blade to avoid damaging teeth2.2 Clear foreign material from saw blade surfaces for inspection2.3 Inspect saw blade and use correct terminology to identify defects2.4 Declare saw unserviceable where hazardous defects are found2.5 Segregate and dispose of unserviceable saws according to workplace procedures and environmental protection practices |
| 3. Determine levelling and tensioning requirements | 3.1 Identify levelling and tensioning requirements for the saw blade3.2 Identify method and tools and equipment required for levelling and tensioning saw blade3.3 Verify requirements and appropriate methods for levelling and tensioning with supervisor as required3.4 Record inspection results according to workplace requirements |

| 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 standard reference manuals on levelling and tensioning saw blades
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| Writing | * Prepare routine written reports using the required format, language and structure
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| Oral Communication | * Employ speaking, active listening and questioning skills to verify own recommendations related to levelling and tensioning requirements with supervisor
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| Numeracy | * Use numerical values to describe saw blade dimensions
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| Navigate the world of work | * Understand 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 |
| FWPCOT3XXX Identify levelling and tensioning requirements for saw blades | Not applicable | New unit | Not applicable |

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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 FWPCOT3XXX Identify levelling and tensioning requirements for saw blades |
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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 one occasion, the individual has:* identified, assessed and taken actions to mitigate risks and hazards associated with inspecting saw blades
* inspected and determined the levelling and tensioning requirements for the following types of saw blades according to the work order:
* circular
* narrow band
* wide band
* used personal protective equipment (PPE) throughout the work
* recorded inspection outcomes according to workplace requirements.
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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:* characteristics of circular, narrow and wide band saw blades
* purpose of levelling and tensioning saw blades
* consequences of incorrect levelling and tensioning of saw blades
* frequency and timing of levelling and tensioning saw blades
* terminology related to levelling and tensioning saw blades:
* lump
* ridge
* twist
* dished
* loose
* fast
* tight / stiff
* tension
* saw blades tools and equipment used in levelling and tensioning saw blades
* importance of levelling blades, setting tension and applying curvature to match requirements for:
* characteristics of various materials sawn
* speed of the sawing process
* direction of the sawing process
* cutting angle for sawing
* saw blade specifications
* methods for:
* removing saw blades from circular saws
* assessing saw blade condition
* levelling and tensioning blades to specified requirements
* applying curvature
* checking saw blades after levelling and tensioning
* characteristics of metal used in circular saw blades and range of force which can be applied without damaging blades
* saw blade defects
* lumps, ridges, and twists
* areas of excessive tension
* areas of insufficient tension
* compressive and tensile stresses
* types of risk and hazards and mitigation measures associated with inspecting, levelling and tensioning saw blades
* workplace policies and procedures specific to levelling and tensioning circular saw blades:
* workplace health and safety with particular emphasis on equipment lockout and use of personal protective equipment (PPE)
* communication reporting lines
* recording and reporting processing and equipment faults
* environmental protection practices for repairing and maintaining tools and equipment in forest products factory settings:
* reducing water and energy use
* cleaning plant, tools and equipment
* disposing of, recycling and reusing materials.
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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 forest product factory setting or an environment that accurately represents workplace conditions
* resources, equipment and materials:
* circular and band saw blades for inspection to determine levelling and tensioning requirements
* PPE for inspecting, levelling and tensioning saw blades
* specifications:
* template documents for recording levelling and tensioning requirements for saw blades manufacturer instructions for levelling and tensioning saw blades
* work order with specific instructions for inspecting and identifying the levelling and tensioning requirements of saw blades
* workplace procedures for assessing the dimensional accuracy and surface quality of sawn timber products and determining the levelling and tensioning requirements of saw blades.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and / or standards. |

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