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 | Hand sharpen knives and blades for commercial and domestic cutting services |
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| Application | This unit of competency describes the skills and knowledge required to hand-sharpen knives and blades using files and grinders for a range of commercial and domestic services that use hand drill bits, hand chainsaw, scissors, wood chisels, garden tools and other cutting tools.The unit applies to individuals who sharpen machine knives and blades in a saw technician workshop or sawmill facility.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 | Harvesting and HaulageSawmilling and ProcessingTimber Manufactured ProductsWood Panel Products |

| 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 sharpening | 1.1 Review work order to determine job requirements and where required seek clarification from appropriate personnel1.2 Identify and implement workplace health and safety requirements including the use of personal protective equipment, equipment lockout and safe manual handling techniques1.3 Identify, assess and take actions to mitigate risks and hazards associated with sharpening knives and blades1.4 Identify and implement workplace procedures for minimising waste material, cleaning plant, tools and equipment, and maximising energy efficiency1.5 Remove and replace knives or blades to be sharpened from designated machinery1.6 Select sharpening equipment appropriate to the type of knife or blade and work requirements and check for operational effectiveness |
| 2. Assess knife or blade condition and set up for sharpening | 2.1 Identify defects and assess the cutting performance of knife or blade for sharpening requirements2.2 Clean knife or blade holders to workplace standards2.3 Assess condition of knife or blade holder and correct defects2.4 Select jig setting for knife or blade assembly2.5 Separate and reassemble knife or blade assembly according to manufacturer recommendations |
| 3. Sharpen knives or blades | 3.1 Clean excess build-up from knives or blades and inspect for defects, replacing those unable to be repaired by sharpening 3.2 Select geometry for knives or blades from manufacturer instructions3.3 Select manual sharpening equipment and suitable attachment for holding the knife or blade3.4 Feed sharpening equipment across knife or blade, into cutting edge, to obtain clean cutting edge that conforms with geometric requirements without defects and burns3.5 Inspect knife or blade after sharpening for accuracy and hone remaining burrs to obtain a sharp cutting edge3.6 Identify, record and report sharpening and equipment faults to the 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 |
| Numeracy | * Identify the pitch and angle that a knife or blade is sharpened at
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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 |
| FWPCOT3XXX Hand sharpen knives and blades for commercial and domestic cutting services | FPICOT3201 Hand sharpen knives and blades | Updated application statement; revised knowledge evidence; updated unit code and title to reflect changes and for compliance. | 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 FWPCOT3XXX Hand sharpen knives and blades for commercial and domestic cutting services |
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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:* prepared for hand sharpening of knives or blades
* safely and effectively hand-sharpened knives or blades using powered and manual sharpening equipment
* removed and replaced knives or blades from designated machinery
* recorded and reported workplace activity.
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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: * regulations, standards, codes of practice and established safe practices for hand sharpening knives and blades
* geometry of knives and blades including the pitch and angle that a knife or blade is sharpened at, allowing for the device that the knife or blade is in and the material to be cut
* defects in the cutting edges of knives and blades:
* burrs
* burns
* chips
* splits
* dents
* characteristics of different types of metal knives and blades:
* drill bits
* hand chainsaw
* clipper blades
* gardening tools
* scissors
* wood chisels
* mincer blades
* shears
* another cutting equipment type with knives or blades
* sharpening methods and geometry:
* pitch
* depth of cut
* speed the knife or blade is sharpened at to obtain a sharp edge
* basic knowledge of physics of knives or blades including:
* blade material and properties
* impact of material-to-be-cut properties on knives or blades
* direction of cut
* forces on a knife or blade
* heat removal when relevant
* knife or blade configuration
* types, safe use and maintenance of manual sharpening equipment:
* power-driven sharpening equipment with procedures for safe use and lockout
* files (round, triangular, square and flat)
* honing tools
* saw sets
* risks and hazards associated with hand sharpening knives and blades
* workplace procedures for hand sharpening knives and blades:
* workplace health and safety with particular emphasis on equipment lockout, use of personal protective equipment (PPE) and safe manual handling techniques
* recording and reporting production outcomes and equipment faults
* communication channels and protocols
* environmental protection requirements, including the safe disposal of waste material and the cleaning of plant, tools and equipment.
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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 saw technician workshop, sawmill facility or an environment that accurately represents workplace conditions
* resources, equipment and materials:
* equipment from which knives blades are to be removed for inspection and sharpening
* knives and blades to be hand sharpened
* power-driven sharpening equipment with procedures for safe use and lock-out
* files (round, triangular, square and flat)
* honing tools
* saw sets
* specifications:
* manufacturer instructions for use, repair and maintenance of equipment
* work order with specific instructions for hand sharpening knives and blades
* workplace procedures for sharpening knives and 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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