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| Title | Operate a cross cut saw centre | | |
| Level | 3 | Credits | 5 |

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| Purpose | People credited with this unit standard are able to: demonstrate knowledge of the operation and operating principles of a cross cut saw centre; prepare to operate a cross cut saw centre; operate a cross cut saw centre; monitor the performance of a cross cut saw centre with respect to volume and quality of output; and explain and apply preventative maintenance requirements specific to a cross cut saw centre. |
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| Classification | Solid Wood Manufacturing > Sawmilling |
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| Available grade | Achieved |
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Guidance Information

- 1 Legislation
Health and Safety at Work Act 2015.
Resource Management Act 1991.
- 2 Definitions
Accepted industry practice – approved codes of practice and standardised procedures accepted by the wider sawmilling industry as examples of best practice.
Corrective action refers to actions such as communication to management, communication to on-site technical person, communication to off-site technical support person, cleaning, communication with maintenance staff, recalibration, or changes made to the operating system in accordance with worksite documentation.
Workplace procedures refer to documented policies and procedures set by the organisation carrying out the work, and to documented or other directions provided to staff, and applicable to the tasks being carried out. They may include but are not limited to – standard operating procedures, site specific procedures, site safety procedures, equipment operating procedures, quality assurance procedures, product quality specifications, references, approved codes of practice, housekeeping standards, environmental considerations, on-site briefings, supervisor’s instructions, and procedures to comply with legislative and local body requirements relevant to the industry sector.
- 3 Range
Cross saw types include but are not limited to – radial arm, drop saws, snip saws, docking systems;
evidence of one cross saw type is required. The same cross saw type should be used for all the outcomes in this unit standard.

- 4 Assessment information
- a All activities and evidence must meet workplace procedures and accepted industry practice.
 - b This unit standard applies to cross cutting timber for length using docking, cross cutting and optimising systems.
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Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the operation and operating principles of a cross cut saw centre.

Performance criteria

- 1.1 The role of the saw centre in the timber manufacture process is explained.
- 1.2 Roles and responsibilities of a cross cut operator are described.
- 1.3 Operating parameters and capability of a cross cut saw centre are identified.
 - Range includes but is not limited to – minimum and maximum cross sections of input material, maximum and minimum lengths, feed speed, cutting accuracy and tolerances.
- 1.4 Cross cut saw components are identified.
 - Range evidence of five components is required.
- 1.5 Operating faults that can affect output volume and quality are identified, and the corrective action that can be taken is described.
- 1.6 Safety features of a cross cut saw centre are identified and their roles are explained.
 - Range may include but is not limited to – stop button, lock-out switch or system, guards, isolation of photoelectric cell and scanning systems, safe access ways; evidence of four is required.

Outcome 2

Prepare to operate a cross cut saw centre.

Performance criteria

- 2.1 Start-up checks are completed.
- 2.2 Input materials checks are completed to ensure materials meet specification and production run expectations.

- 2.3 Hazards associated with operating a cross cut saw centre are identified and actions to manage them are described.
- Range hazards may include but are not limited to – moving equipment, saw dust, mobile plant, noise, trip hazards, material defects; evidence of four is required.
- 2.4 Upstream and downstream processing stages are checked to ensure they are ready for production to start.
- 2.5 Cutting programmes are selected based on the incoming timber characteristics and customer specification.
- 2.6 First board cut is checked to ensure the process set-up and output products meet customer specifications.

Outcome 3

Operate a cross cut saw centre.

Performance criteria

- 3.1 Safe work practices associated with operating a cross cut saw centre are applied.
- Range practices may include but are not limited to – isolation procedures, lock-outs, emergency stops, machine guarding, wearing appropriate safety equipment.
- 3.2 Saw centre and any fitted scanner or marking system are started, operated, and shut down according to manufacturer's specifications.
- 3.3 Cutting strategy is applied to input material to maximise value.
- 3.4 Off cuts and downgraded timber are directed to further processing.
- 3.5 Production and quality records are completed.
- 3.6 Rate of production is maintained, and any variation is managed.

Outcome 4

Monitor the performance of a cross cut saw centre with respect to volume and quality of output.

Performance criteria

- 4.1 Output timber from a saw centre is monitored and corrective action is taken to maintain quality and quantity.
- Range may include but is not limited to – length variations, squareness of saw cut, quality of saw cut, input timber quality variations.

4.2 Control information is entered into any fitted control device, and output data are monitored and interpreted.

4.3 Equipment faults and malfunctions are identified, and corrective actions taken.

Range equipment faults may be mechanical (blunt saws, damaged saws), electrical, or hydraulic.

Outcome 5

Explain and apply preventative maintenance requirements specific to a cross cut saw centre.

Performance criteria

5.1 Preventative maintenance requirements are explained and carried out.

5.2 Saw changes are coordinated with other staff and saw centre readjustments are made.

5.3 Common defects caused by faulty saw blades are identified and related to their cause.

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| Replacement information | This unit standard replaced unit standard 135. |
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| Planned review date | 31 December 2024 |
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|-----------------------|---------|------------------|--------------------------|
| Registration | 1 | 18 December 2006 | 31 December 2012 |
| Rollover and Revision | 2 | 15 April 2011 | N/A |
| Review | 3 | 23 April 2020 | N/A |

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| Consent and Moderation Requirements (CMR) reference | 0013 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.