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| Title | Operate a Computer Numerical Controlled (CNC) machine for wood product manufacture | | |
| Level | 3 | Credits | 3 |

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| Purpose | People credited with this unit standard are able to: manage hazards associated with operating a CNC machine for wood product manufacture; prepare a CNC machine for operation; operate a CNC machine for wood product manufacture; monitor and control the performance of a CNC machine for wood product manufacture. |
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| Classification | Solid Wood Manufacturing > Wood Product Manufacturing Skills |
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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 wood manufacturing industry as examples of best practice.
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 Assessment information
All activities and evidence must meet workplace procedures and accepted industry practice.

Outcomes and performance criteria

Outcome 1

Manage hazards associated with operating a CNC machine for wood product manufacture.

Performance criteria

- 1.1 Hazards associated with operating a CNC machine are identified and actions to be taken to manage the hazards are described.
- 1.2 Safe work practices associated with operating a CNC machine are identified and used.
- Range practices may include but are not limited to – isolation procedures, lock-outs, emergency stops, lifting techniques, machine guarding, wearing of appropriate safety equipment.

Outcome 2

Prepare a CNC machine for operation.

Performance criteria

- 2.1 CNC programme is checked against job specifications.
- 2.2 Programme processes and outputs for the job are described.
- Range description includes but is not limited to – tools and equipment used, sequence, steps, changes to components.
- 2.3 Machine tools and implements are checked.
- 2.4 Machine is referenced to prepare for the operation according to the manufacturer's specifications.

Outcome 3

Operate a CNC machine for wood product manufacture.

Performance criteria

- 3.1 CNC machine is operated to meet job specifications and within time limits.
- 3.2 Output of machine is monitored, and adjustments are made to ensure continuity of process.
- 3.3 Defective materials are identified and removed.
- 3.4 Maintenance and cleaning of the CNC machine is carried out.

Outcome 4

Monitor and control the performance of a CNC machine for wood product manufacture.

Performance criteria

- 4.1 Product quality and feedback information is monitored, and used to maintain process requirements, plant performance, and product quality.
- 4.2 Control information is entered into the CNC machine.
- 4.3 Production requirements are achieved by setting adjustments to machine tools and implements.
- Range production requirements – product quality, volume, production rate, continuity of process.
- 4.4 Completed products are stacked and/or packaged in accordance with customer requirements.

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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 | 11 September 2018 |
| Review | 2 | 30 August 2018 | 11 September 2018 |
| Reinstatement | 3 | 26 March 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.