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| Title | Set a Computer Numerical Controlled machine centre | | |
| Level | 4 | Credits | 6 |

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| Purpose | People credited with this unit standard are able to demonstrate and apply knowledge of: preparing to set; and setting, a Computer Numerical Controlled (CNC) machine centre. |
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| Classification | Furniture > Furniture and Cabinet Making |
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| Available grade | Achieved |
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Guidance Information

- 1 Assessment information
This unit standard may be assessed against on-job or off-job.
All activities and performance criteria must be carried out in accordance with worksite policies and procedures.
- 2 Personal protective equipment, appropriate to job requirements, must be selected and used in accordance with worksite policies and procedures and manufacturer's instructions.
- 3 Definitions
Manufacturer's instructions are instructions provided by manufacturers of substances, equipment, and machinery used in furniture making. These instructions may include details on safe and correct handling, use and storage of substances and/or details on substance properties. Examples are labels on substance containers, product data sheets, and operator's manuals.
SOIs refer to safe operating instructions which are documented instructions attached to machines which detail requirements for safe operation of the particular machine.
Worksite policies and procedures refer to documented policies and to documented or other directions provided to staff. These may include, but are not limited to, ways of managing health and safety, environmental considerations, quality, and production, and must conform to legislation. Examples include standard operating procedures, company health and safety plans, on-site briefings, and supervisor's instructions.

Outcomes and performance criteria

Outcome 1

Demonstrate and apply knowledge of preparing to set a CNC machine centre.

Performance criteria

- 1.1 Job specifications are obtained and interpreted.
- Range number of components, component dimensions, materials, drawing, hardware.
- 1.2 Pre-start check is undertaken in accordance with manufacturer's instructions and SOIs.
- Range electrical power, dust extraction, oil and air supply, holding devices, free from obstructions.
- 1.3 Scheduled maintenance requirements for the machine are explained in accordance with manufacturer's instructions.
- 1.4 Machine is turned on, calibrated to zero point, and put into safe mode in accordance with manufacturer's instructions and SOIs.
- 1.5 Tooling is selected in accordance with the job specifications and checked for defects in accordance with manufacturer's instructions. Any defects are rectified.

Outcome 2

Demonstrate and apply knowledge of setting a CNC machine centre.

Performance criteria

- 2.1 Vacuum table is prepared to hold the workpiece in accordance with the job specifications and the manufacturer's instructions.
- 2.2 Tooling is removed, and selected tooling is fitted in accordance with manufacturer's instructions.
- Range vertical drills, horizontal drills, router cutters.
- 2.3 Test programme is selected and activated.
- 2.4 Test piece is run to check accuracy of tooling in accordance with test programme.
- Range drill position, drill dimension, router depth, router diameter.
- 2.5 Procedures for rectifying faults in the test piece are explained in accordance with manufacturer's instructions.
- Range physical adjustment of tooling, editing of program errors.
- 2.6 Program is selected and loaded in accordance with job specifications.
- 2.7 Machine is put into safe mode after running test piece in accordance with SOIs.

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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 | 9 August 1994 | 31 December 2023 |
| Review | 2 | 7 May 1997 | 31 December 2023 |
| Review | 3 | 26 February 2002 | 31 December 2023 |
| Review | 4 | 19 June 2009 | N/A |
| Review | 5 | 10 December 2020 | N/A |

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| Consent and Moderation Requirements (CMR) reference | 0173 |
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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.