

<b>Title</b>	<b>Produce signs using CNC systems</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>This unit standard is for people working in the signmaking industry.</p> <p>People credited with this unit standard are able to produce signs using Computer Numerical Control (CNC) systems.</p>
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<b>Classification</b>	Printing > Signmaking
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<b>Available grade</b>	Achieved
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## Guidance Information

- 1 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the:  
Health and Safety at Work Act 2015.

Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

- 2 Definitions

*Job requirements* – refer to specific requirements for the signmaking job at hand. These requirements may or may not be covered in the workplace job documentation and may include special instructions or quality requirements expected by the customer and/or the production standards of the signmaking workplace and/or organisation.

*Manufacturer's instructions* – instructions provided by manufacturers of substances, equipment, and machinery. 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.

*Service information* – refers to the recommended use and maintenance of machinery, tools and equipment.

*Specifications* – detail that defines an object being made; commonly communicated by annotated and dimensioned drawings; by written description, or by other communication media. External references may also be used to specify objects such as tables or industry standards.

*Tools and equipment* may be one or more of – CNC controlled router, laser, engraver, water jet cutter.

*Workplace procedures* – refer to organisation policies and procedures that are documented in memo, electronic, or manual format and available in the workplace, and are consistent with manufacturer's requirements. 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 signmaking sector.

- 3 Range  
A minimum of two different signs is required.
- 4 Assessment information  
Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, workplace procedures and legislative requirements.

## Outcomes and performance criteria

### Outcome 1

Produce signs using CNC systems.

### Performance criteria

- 1.1 Set up CNC tools and equipment for correct operation in accordance with manufacturer's instructions and to meet the job requirements.
- 1.2 Cut substrate to meet the job requirements.
- 1.3 Check completed signs for compliance with the job specifications.

<b>Planned review date</b>	31 December 2027
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### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 January 2012	31 December 2016
Revision	2	16 April 2015	31 December 2022
Review	3	20 April 2017	31 December 2022
Rollover	4	17 August 2017	31 December 2022
Review	5	27 September 2022	N/A

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

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**Comments on this unit standard**

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.