

<b>Title</b>	<b>Research the structure of the New Zealand print industry and its production processes and technology</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>20</b>

<b>Purpose</b>	<p>This unit standard is intended for people working towards a management role in the print industry.</p> <p>People credited with this unit standard are able to: research the structure and activities of the New Zealand print industry; research and report on print production processes, equipment, and materials used in the print industry; research and report on the factors that determine the choice of print production processes; evaluate and report on the print production processes used to meet the customer requirements of a production job; and research and report on changing technology in the print industry.</p>
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<b>Classification</b>	Printing > Print Industry Management
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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;
  - Resource Management Act 1991.

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
 

*Print industry* refers to all sectors involved in printing and packaging industries including pre-production, production, and post-production activities. The sectors include – graphic pre-press, digital output, sheet-fed, reel-fed, screen, binding and finishing, fibreboard packaging.

*Print production* refers to any stage of production in any sector of the print industry.

*Substrate* refers to paper, cardboard, film or other material that images and/or text are printed onto.

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

### 3 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.

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## Outcomes and performance criteria

### Outcome 1

Research the structure and activities of the New Zealand print industry.

#### Performance criteria

- 1.1 Identify print industry organisations, and explain their main functions within the sector.

Range organisations include – employer organisations, worker organisations, training organisations; evidence of one of each organisation is required.

- 1.2 Research key information about the organisations identified in performance criterion 1.1.

Range key information includes but is not limited to – organisation aims and objectives, services provided, key personnel, contact details.

- 1.3 Describe the main activities of the New Zealand print industry sectors.

- 1.4 Describe printing techniques and their applications.

Range techniques include – offset, flexographic, screen, digital, letterpress, gravure; evidence of a minimum of three techniques is required.

### Outcome 2

Research and report on print production processes, equipment, and materials used in the print industry.

Range two different production sites must be visited and researched, and a separate report produced for each site.

**Performance criteria**

- 2.1 Describe products, production processes, and equipment.
- 2.2 Identify substrates and materials used in the selected sectors and describe their properties.
- 2.3 Describe the flow of work for two different products from the time jobs are raised to final product distribution.
- 2.4 Describe finishing processes for two different products.

**Outcome 3**

Research and report on the factors that determine the choice of print production processes.

Range two different production sites must be visited and researched, and a separate report produced for each site. The same sites used in outcome 2 can be used for outcome 3.

**Performance criteria**

- 3.1 Explain the impacts of customer requirements on the choice of printing technique.
  - Range may include but is not limited to – product type, end use, cost, speed of production, quality, finishing, run size; evidence of a minimum of four factors is required.
- 3.2 Explain factors affecting the choice of substrate and materials.
  - Range factors may include but are not limited to – printing technique, product type, end use, cost, speed of production, quality, finishing, run size; evidence of a minimum of four factors is required.

**Outcome 4**

Evaluate and report on the print production processes used to meet the customer requirements of a production job.

Range one production job.

**Performance criteria**

- 4.1 Evaluate the workflow procedure for the production job to ensure that customer requirements are met.
  - Range pre-production, production, post-production.

- 4.2 Analyse and evaluate processes to be used for the production job to ensure that customer requirements are met.
- 4.3 Analyse and evaluate information to be communicated, and method of communication at each stage of production, to ensure that customer requirements are met.
- 4.4 Identify an alternative process that could be used for the production job.
- 4.5 Analyse and compare the production process chosen, and the identified alternative in terms of their impact on the customer, producer and environment.

## Outcome 5

Research and report on changing technology in the print industry.

### Performance criteria

- 5.1 Identify three sources of information covering new developments in print industry technology.
- 5.2 Determine reasons for monitoring changes in print industry technology.
- 5.3 Research examples of new developments in the print industry and produce a report.

Range examples may include but are not limited to – graphic pre-press, digital printing, colour management, sheet-fed printing, reel-fed printing, screen printing, binding and finishing, fibreboard packaging, inks, adhesives, substrates, materials, distribution, workflow management; a minimum of three examples is required.

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<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	26 September 2001	31 December 2020
Review	2	23 April 2008	31 December 2020
Revision	3	12 December 2008	31 December 2022
Rollover and Revision	4	31 May 2018	31 December 2025
Review	5	23 July 2020	31 December 2027
Review	6	30 March 2023	N/A
Revision	7	27 February 2025	N/A

**Consent and Moderation Requirements (CMR) reference**

0013

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**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 assessment standard.