

<b>Title</b>	<b>Demonstrate and apply knowledge of trade calculations for the print industry</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to: use industry measurement systems and measuring devices; and demonstrate mathematical skills to meet job requirements within a print company.
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<b>Classification</b>	Printing > Printing Production
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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 print job at hand. These requirements may or may not be covered in the job documentation and may include special instructions, quality requirements expected by the customer, and/or production standards of the print workplace and/or organisation.

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

*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

Use industry measurement systems and measuring devices.

#### Performance criteria

- 1.1 Apply metric system of weights and measurements for processes used in the workplace.
- 1.2 Read, convert and calculate measurements of time.
- 1.3 Describe the characteristics of measuring devices used in the workplace.
- 1.4 Use measuring devices as required in the production process.
- 1.5 Use measuring instruments to meet job requirements.

Range may include but is not limited to – conductivity meter, densitometer, durometer, girth tape, liquid measuring cylinder, machine adjustment and measuring scales, callipers, micrometer, pH meter, rules, sheet length gauge, thermometer, relative humidity meter, weighing devices, viscosity cup.

### Outcome 2

Demonstrate mathematical skills to meet job requirements within a print company.

#### Performance criteria

- 2.1 Solve problems using addition, subtraction, multiplication and division.
- 2.2 Use ratios and proportions.
- 2.3 Read and write Roman numerals.
- 2.4 Read scales and calculate weights.
- 2.5 Use calculations to meet job requirements.
- 2.6 Use industry standards to refer to substrate sizes used in the production process.

Range may include but is not limited to – ISO paper sizes for paper and board.

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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	22 May 2003	31 December 2025
Rollover and Revision	2	26 March 2007	31 December 2025
Rollover	3	12 December 2008	31 December 2025
Review	4	21 August 2009	31 December 2027
Review	5	30 March 2023	N/A
Revision	6	27 February 2025	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.