

Title	Print large format documents using a range of media		
Level	4	Credits	20

Purpose	<p>This unit standard is for experienced people working in the print or signmaking industries.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of a wide range of media used in large format digital printing; demonstrate knowledge of a range of inks used in large format inkjet printers; maintain the printer and the surrounding environment for printing; and print large format graphics using a range of different media.</p>
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Classification	Printing > Digital Processes for Print
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Available grade	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:
- Copyright Act 1994;
 - Health and Safety at Work Act 2015;
 - Privacy Act 2020;
 - 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 **Definition**
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**
 The candidate is required to keep a portfolio of work indicating that they have successfully used a wide range of media specified in this unit standard.

The jobs selected for assessment must be completed within times set by the company. Accurate proofing of all documents is expected. The proof marks used may be any that are acceptable in the workplace.

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

Demonstrate knowledge of a wide range of media used in large format digital printing.

Range media may include but is not limited to – vinyl, canvas, paper, self-adhesive, card, fabrics, corflute, film, mesh;
evidence is required for a minimum of four different media.

Performance criteria

1.1 Describe media in terms of their physical characteristics.

Range physical characteristics may include but are not limited to – grammage, calliper, coatings or finish, composition, texture, curl, adhesiveness, drying time, flame resistance, brightness, opacity.

1.2 Describe media in terms of their image qualities.

Range image qualities may include but are not limited to – contrast, colour quality, colour gamut, gloss, matt, definition.

1.3 Describe media in terms of their durability.

Range durability may include but is not limited to – colour fastness, waterfastness, scuff or scratch resistance, indoors, outdoors, flame resistance, cracking.

1.4 Describe media in terms of their uses for different job requirements.

Range uses may include but are not limited to – indoors, outdoors, fine art, photography, poster, signage, exhibition, portable displays, ink types, printer compatibility, mounting, finishing.

1.5 Describe media in terms of their cost in relation to their use.

Outcome 2

Demonstrate knowledge of a range of inks used in large format inkjet printers.

Performance criteria

2.1 Describe different types of inks in terms of their composition.

Range types of inks may include but are not limited to – dye inks, pigment inks, water based, solvent inks, eco-solvent inks, brand inks, latex inks.

2.2 Describe inks in terms of their features.

Range features may include but is not limited to – dry time, type of finish, colour gamut, fade (light resistance), water and chemical resistance, greyscales, black and white images, number of ink colours, range of black inks, toxicity scratch resistance.

2.3 Describe inks in terms of their usage.

Range usage may include but is not limited to – indoor, outdoor, exposure to light, mounting, display, supported media.

Outcome 3

Maintain the printer and the surrounding environment for printing.

Performance criteria

3.1 Maintain printer in accordance with manufacturer's instructions to ensure efficient use.

Range maintenance may include but is not limited to – cleaning, calibration.

3.2 Store inks and media.

3.3 Prepare the environment to print the specified document.

Range preparation may include but is not limited to – toxicity, extraction, ventilation, dust, light, humidity, space, temperature.

Outcome 4

Print large format graphics using a range of different media.

Performance criteria

4.1 Prepare files for printing on a large format digital printer to meet customer specifications.

Range preparation may include but is not limited to – format, colour, space, resolution, page size, imposition, colour management, fonts, profile cutting, tiling.

- 4.2 Handle media.
- 4.3 Select inks and media for the specified graphic images to be printed.
- 4.4 Prepare digital printer for printing with the specified media, inks, and colour profiles loaded.
- 4.5 Print a proof.
- 4.6 Obtain customer approval for the final proof.
- 4.7 Print the graphic images to meet the customer's specifications and finishing requirements.
- 4.8 Prepare the large format print for finishing and delivery.

Planned review date	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	25 May 2007	31 December 2012
Revision	2	12 December 2008	31 December 2012
Review	3	19 January 2012	31 December 2021
Review	4	20 April 2017	31 December 2025
Review	5	30 March 2023	N/A

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 Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.