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| Title | Make ready and print multi colour for pad printing | | |
| Level | 3 | Credits | 10 |

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| Purpose | People credited with this unit standard are able to: set up the register systems on the pad printing machine; set and position the plates and pads on the pad printing machine; undertake make-ready tasks for multi colour pad printing; and print multi colour pad printing work. |
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| Classification | Printing > Pad Printing |
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| Available grade | Achieved |
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| Prerequisites | Unit 340, <i>Demonstrate knowledge of safe working practices in the print industry</i> , or demonstrate equivalent knowledge and skills. |
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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;
- Hazardous Substances and New Organisms Act 1996;
- 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

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 as set down by the print workplace and/or organisation.

Required production standards refer to the production standards set down by the workplace, and the quality standards expected by the customer for the finished product.

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 It is recommended that people hold credits for Unit 24992, *Print single colour work on a pad printing machine*; and Unit 24993, *Demonstrate knowledge of colour and ink requirements for pad printing*, before being assessed against this unit standard.
- 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

Set up the register systems on the pad printing machine.

Performance criteria

- 1.1 Set up register systems for multi colour work.
- 1.2 Rectify and/or report faults found while setting up register systems.

Outcome 2

Set and position the plates and pads on the pad printing machine.

Performance criteria

- 2.1 Set plates for multi colour work into the machine to give accurate register with the other colours.

Range colour sequence.
- 2.2 Position pads into the machine, ink up, and align to the object being printed.
- 2.3 Undertake trial run to ensure the smooth running of the pad printing machine.

Outcome 3

Undertake make-ready tasks for multi colour pad printing.

Performance criteria

- 3.1 Ink up machine.
- 3.2 Take first multi colour prints and make adjustments to meet job requirements.
- 3.3 Pass prints for production run, and obtain approval to run.

Outcome 4

Print multi colour pad printing work.

Performance criteria

- 4.1 Print first colour to meet the job requirements.
- 4.2 Print second and/or subsequent colours to meet the job requirements.
- 4.3 Follow quality control procedures to maintain required production standards.

 Range location of objects; printing plate condition; printing pad condition; spatula; doctor blade; ink cup; ink viscosity; manual loading; manual pre-treatment; drying racks; ink performance, colour, and register.
- 4.4 Identify problems encountered during the print run, explain their causes, and describe solutions.

 Range problems may include but are not limited to – dirty print, set-off, ghosting, over and/or under impression, slur, ink contamination, ink drying, ink position, ink reticulation, change of viscosity, image registration, spots, show through, static electricity, colour variation, product damage or contamination, poor release of ink by pad, insufficient opacity, distortion of motif, blurring, poor levelling of ink, poor wetting; splotches/spiderwebbing; fine lines running together; patchy surfaces, pinholes, motif smudged, ink peeling, poor adhesion, orange peel, humidity.
- 4.5 Solve problems encountered during the print run.
- 4.6 Print quantity required, in accordance with the job documentation.
- 4.7 Carry out post-press tasks.

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| 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 | 18 July 2008 | 31 December 2025 |
| Revision | 2 | 12 December 2008 | 31 December 2027 |
| Review | 3 | 30 March 2023 | N/A |
| Revision | 4 | 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 if you wish to suggest changes to the content of this unit standard.