

Title	Undertake advanced pre-make ready for dry offset printing		
Level	4	Credits	12

Purpose	People credited with this unit standard are able to: check documentation, and confirm requirements for the job are available; demonstrate knowledge of colour theory and use colour terms; select, mix and match inks; and confirm substrates meet the requirements of the job and press specifications.
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Classification	Printing > Dry Offset
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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 All workplace practices must meet any applicable and recognised codes of practice, and documented workplace health, safety, and environmental procedures for personal, product, workplace health, safety, and environmental matters, and the obligations required under current law including the Health and Safety in Employment Act 1992, Resource Management Act 1991, and their subsequent amendments.
- 2 *Workplace practices* refer to the documented procedures for the machine and/or workplace.

Outcomes and performance criteria

Outcome 1

Check documentation and confirm requirements for the job are available.

Performance criteria

- 1.1 Job documentation is checked to ensure that all specifications for the process being undertaken are complete and any discrepancies are reported in accordance with workplace practices.
- 1.2 Components required for the job are checked against the job documentation and their availability confirmed.

- 1.3 Availability of equipment, as determined by the job documentation, is confirmed.

Outcome 2

Demonstrate knowledge of colour theory and use colour terms.

Performance criteria

- 2.1 Colour theory is explained in terms of additive colours (red, green and blue light).
- 2.2 Colour theory is explained in terms of subtractive colours (cyan, magenta and yellow pigments).
- 2.3 Ranges of visual colour, red, green, blue (RGB), and cyan, magenta, yellow, black (CMYK), are explained in terms of their relationship to each other.
- 2.4 Colour terms applicable to the production process being undertaken are used.
- Range may include but is not limited to – primary colours, secondary colours, additive colours, subtractive colours, complementary colours, lightfast, hue, hue error, greyness, efficiency.
- 2.5 Correct viewing conditions are explained in terms of their importance.
- Range fluorescence, metamerism, colour temperature, viewing booths.

Outcome 3

Select, mix and match inks.

Performance criteria

- 3.1 Inks are selected to meet the requirements of the substrate, press and job specifications.
- Range inks are selected with regard to the following – transparency, opacity, colour, gloss, drying properties, lightfast, substrate, solvent compatibility, odourfree, toxicity, bleed properties, overprint finish.
- 3.2 Inks are mixed using colour mixing and matching systems available in the workplace.

Outcome 4

Confirm substrates meet the requirements of the job and press specifications.

Performance criteria

- 4.1 Substrate characteristics are related to the printing process for which they are to be used.

4.2 Printing problems are identified in terms of substrate characteristics.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 February 1998	31 December 2025
Revision	2	20 April 2001	31 December 2025
Revision	3	19 November 2003	31 December 2025
Review	4	27 October 2006	31 December 2025
Revision	5	12 December 2008	31 December 2025
Review	6	30 March 2023	31 December 2025

Consent and Moderation Requirements (CMR) reference

0005

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