

Title	Demonstrate industry knowledge for dry offset printing		
Level	3	Credits	8

Purpose	People credited with this unit standard are able to: use trade terms and vocabulary applicable to dry offset printing; use reference material to ensure procedures are followed, and required standards are met; demonstrate understanding of halftones; and to demonstrate knowledge of product bar code printing, the principles of design and layout, plates used in dry offset printing, the factors contributing to production costs, and overprint finishes.
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Classification	Printing > Dry Offset
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Available grade	Achieved
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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, Privacy Act 1993, and their subsequent amendments.
- 2 *Workplace practices* refer to the documented procedures for the machine and/or workplace.

Outcomes and performance criteria

Outcome 1

Use trade terms and vocabulary applicable to dry offset printing.

Performance criteria

- 1.1 Trade terms and vocabulary applicable to dry offset printing are defined.

Range	includes but is not limited to – calliper, cure, densitometer, durometer (shore hardness), flash point, gray scale, halftone, light fastness, moiré pattern, positive, register, relative humidity/temperature, retarder, static electricity.
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- 1.2 Trade terms and vocabulary applicable to dry offset printing are used in the production process being undertaken.

Outcome 2

Demonstrate knowledge of product bar code printing.

Performance criteria

2.1 Product bar coding is described in terms of format and functions.

Range format – country of origin, manufacturer, product, check number; functions – storing information and identifying individual products, pricing, recording stock.

2.2 Requirements for reproduction of product bar codes are outlined.

Range positioning, readability, printing tolerances, size, colour combinations, positive/negative bar codes.

2.3 Product bar code tolerances are checked in accordance with workplace practices to ensure correct reading.

Range may include but is not limited to – grey gauges, scanners, verifiers.

2.4 Processes for reporting product bar coding faults are described in accordance with workplace practices.

Outcome 3

Use reference material to ensure procedures are followed, and required standards are met.

Range may include but is not limited to – trade publications, instruction manuals, maintenance manuals, spare parts manuals, videos, DVDs, product specification information.

Performance criteria

3.1 Reference material applicable to the process and workplace is located.

3.2 Reference material is used to ensure machine operation and product use meet workplace requirements.

Outcome 4

Demonstrate understanding of halftones.

Performance criteria

4.1 Use of halftone and line film is described in terms of reproducing an original copy.

- 4.2 Halftone screen ruling applications are described for different kinds of substrates and methods of printing.

Outcome 5

Demonstrate knowledge of the principles of design and layout.

Range space, shape, symmetry, asymmetry, balance.

Performance criteria

- 5.1 The term 'layout' is defined and the function and purpose of layout are explained.
- 5.2 Principles of design and layout are explained in terms of job requirements.

Outcome 6

Demonstrate knowledge of plates used in dry offset printing.

Range at least one of – photopolymer, silicon.

Performance criteria

- 6.1 Plate making procedures are explained for the dry offset process being learnt.
- 6.2 Plates are described in terms of their properties.

Outcome 7

Demonstrate knowledge of the factors contributing to production costs.

Performance criteria

- 7.1 Effects of wages, materials, and machinery costs are described in terms of overall production costs.
- 7.2 Effect of wastage is described in terms of profitability.
- 7.3 Systems for recording stock movements are outlined in terms of their importance.

Outcome 8

Demonstrate knowledge of overprint finishes.

Performance criteria

- 8.1 Different overprint finishes are recognised and explained in terms of their uses.
- Range barrier purposes, lacquers.

8.2 Methods of application are described in terms of the different overprint finishes.

Range roller coating, conventional inking systems.

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	27 October 2006	31 December 2025
Revision	2	12 December 2008	31 December 2027
Review	3	30 March 2023	31 December 2027
Rollover	4	27 February 2025	31 December 2027

Consent and Moderation Requirements (CMR) reference

0005

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