

Title	Print spot colour close register sheet-fed offset work		
Level	3	Credits	40

Purpose	People credited with this unit standard are able to: follow safety requirements for the sheet-fed offset press; operate the feeder system, the printing unit and the delivery section; print two or more colour close register sheet-fed offset work to meet job requirements; check job is complete before wash-up, and undertake post-press tasks.
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Classification	Printing > Printing - Sheet-Fed
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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:

- 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 Definitions

Job documentation refers to the documentation that is used in the workplace that contains the instructions and requirements for a particular production job. This may include but is not limited to workplace orders, production orders, workplace specifications, samples, lay cards.

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.

Spot colour refers to a colour that is added in a specific region of a printed sheet, used to highlight individual page elements such as logos or headlines.

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 355, *Undertake pre-make ready for sheet-fed offset printing*, before being assessed against this unit standard.
- 4 **Range**
Candidates must submit a portfolio of a minimum of four production jobs with two or more spot colours in close register;
Portfolio must include – work for a minimum sheet size of A3, halftones and solids, reversed out type, a variety of stock, colour matching, text and photographs.
- 5 **Assessment information**
Candidates undertaking this unit standard must provide evidence of normal colour vision.

Evidence presented for assessment against this unit standard must meet job requirements and 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

Follow safety requirements for the sheet-fed offset press.

Range operating manual, workplace practices.

Performance criteria

- 1.1 Follow press start-up and shut-down procedures.
- 1.2 Explain emergency procedures for the press.

Outcome 2

Operate the feeder system.

Performance criteria

- 2.1 Monitor feeder stack to achieve continuous feeding to the head and side lays.
- 2.2 Add substrate to the feeder to provide a continuous supply for printing.

- 2.3 Monitor sheet pick-up and transport system and adjust as required to ensure continuous operation.

Range check for – feeder head and/or sucker bar, sheet separation, sheet detectors, anti-static devices, feedboard grippers or suction, pile height.

- 2.4 Monitor side lays and head lays and adjust transfer gripper system as required to maintain registration.

Range check for – sheet detection devices, lay positioning.

Outcome 3

Operate the printing unit.

Performance criteria

- 3.1 Monitor and adjust plate/s and plate cylinder.

- 3.2 Monitor and adjust blanket and blanket cylinder.

- 3.3 Monitor and adjust impression cylinder.

Range cylinder and bearers, specialist finishing processes.

- 3.4 Monitor and maintain control ink colour, condition and inking system.

Range ink density, mixing, matching, ink additives, transfer of ink to plate.

- 3.5 Monitor and adjust dampening system.

Range fountain level, dampening settings.

Outcome 4

Operate the delivery section.

Performance criteria

- 4.1 Monitor and adjust the sheet transfer and control system to achieve continuous delivery to the delivery pile.

- 4.2 Monitor and adjust the set-off prevention devices as required to prevent set-off.

- 4.3 Maintain product bar code tolerances throughout the print run, where relevant to the workplace.

- 4.4 Use quality control guides to maintain required production standards.

4.5 Rectify or report faults found during the print run.

Range print faults may include but are not limited to – spots, set-off, ghosting, over or under impression, slur, show-through, ink contamination, bleeds, creasing, misregister, static, ink and water balance, plate blinding, colour variation, coating build-up, shift in image position, image appearing washed out; delivery faults may include but are not limited to – circumferential creasing, lay edge corners turning under, tears in lay edge, black lines or marks on non-image areas.

Outcome 5

Print two or more colour close register sheet-fed offset work.

Performance criteria

5.1 Print first colour, where relevant to the workplace.

5.2 Print two or more colours using subsequent passes where required.

5.3 Maintain production standards throughout the print runs.

Range colour density, fit, register, overprinting colours.

5.4 Sort printed copies to the standard of the pass sheet.

Outcome 6

Check job is complete before wash-up, and undertake post-press tasks.

Performance criteria

6.1 Check quantity printed against job documentation before wash-up is commenced or plate removed from cylinder.

6.2 Rectify or report any discrepancies in quantity.

6.3 Explain correct shut-down sequence.

6.4 Complete job documentation.

6.5 Note amendments and variations on the job documentation for future reference.

6.6 Carry out other post-press tasks as required by the job documentation.

Range indicate lay and grip edge, knock-up and sort job, prepare for forwarding to next process, file plates.

Replacement information	This unit standard and unit standard 26318 replaced unit standard 3710, unit standard 3711, unit standard 3712, unit standard 3713, and unit standard 3714.
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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 June 2010	31 December 2027
Review	2	30 March 2023	N/A
Revision	3	27 February 2025	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.