

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 being used; operate the feeder system, the printing unit and the delivery section to meet job requirements in accordance with workplace practices; print two or more colour close register sheet-fed offset work to meet job requirements in accordance with workplace practices; check job is complete before wash-up, and undertake post-press tasks in accordance with workplace practices.

Subfield Printing

Domain Printing - Sheet-Fed

Status Registered

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Entry information Prerequisite: Unit 340, *Demonstrate knowledge of safe working practices in the print industry*, or demonstrate equivalent knowledge and skills.

Recommended: Unit 26318, *Make ready a sheet-fed offset printing press for spot colour work*, or demonstrate equivalent knowledge and skills.

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.

Accreditation Evaluation of documentation and visit by NZQA and industry.

Standard setting body (SSB) Competenz

Accreditation and Moderation Action Plan (AMAP) reference 0005

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

Special notes

- 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, and its subsequent amendments.
- 2 For assessment against this unit standard candidates must submit a portfolio of a minimum of four production jobs with two or more spot colours in close register. The 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.
- 3 Candidates undertaking this unit standard must provide evidence of normal colour vision. Further information on the Competenz's policy for colour vision can be obtained from Competenz, PO Box 9005, Newmarket, Auckland 1149 or <http://www.competenz.org.nz/>
- 4 **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 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 workplace;
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 practices refer to the documented procedures for the machine and/or workplace.

Elements and performance criteria

Element 1

Follow safety requirements for the sheet-fed offset press being used.

Range operating manual, workplace practices.

Performance criteria

- 1.1 Press start-up and shut-down procedures are followed in accordance with workplace practices.
- 1.2 Emergency procedures for the press are demonstrated in accordance with workplace practices.

Element 2

Operate the feeder system to meet job requirements in accordance with workplace practices.

Performance criteria

2.1 Feeder stack is monitored ensuring that continuous feeding to the head and side lays is achieved.

2.2 Substrate is added to the feeder to provide a continuous supply for printing.

2.3 Sheet pick-up and transport system is monitored and adjusted as required ensuring 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 Side lays and head lays are monitored and transfer gripper system is adjusted as required to ensure registration is maintained.

Range check for – sheet detection devices, lay positioning.

Element 3

Operate the printing unit to meet job requirements in accordance with workplace practices.

Performance criteria

3.1 Plate/s and plate cylinder are monitored and adjusted.

3.2 Blanket and blanket cylinder are monitored and adjusted.

3.3 Impression cylinder is monitored and adjusted.

Range cylinder and bearers, specialist finishing processes.

3.4 Control of ink colour, condition and inking system are monitored and maintained.

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

3.5 Dampening system is monitored and adjusted.

Range fountain level, dampening settings.

Element 4

Operate the delivery section to meet job requirements in accordance with workplace practices.

Performance criteria

- 4.1 The sheet transfer and control system is monitored and adjusted ensuring that continuous delivery to the delivery pile is achieved.
- 4.2 The set-off prevention devices are monitored and adjusted as required to prevent set-off.
- 4.3 Product bar code tolerances are maintained throughout the print run.
- 4.4 Quality control guides are used to maintain required production standards.
- 4.5 Faults encountered during the print run are reported or rectified.

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.

Element 5

Print two or more colour close register sheet-fed offset work to meet job requirements in accordance with workplace practices.

Performance criteria

- 5.1 First colour is printed.
- 5.2 Second and/or subsequent colours are printed.
- 5.3 Production standards are maintained throughout the print runs.
Range colour density, fit, register, overprinting colours.
- 5.4 Printed copies are sorted to the standard of the pass sheet.

Element 6

Check job is complete before wash-up, and undertake post-press tasks in accordance with workplace practices.

Performance criteria

- 6.1 Quantity printed is checked against job documentation before wash-up is commenced or plate removed from cylinder.
 - 6.2 Any discrepancies in quantity are rectified or reported.
 - 6.3 Correct shut-down sequence is followed.
 - 6.4 Job documentation is completed.
 - 6.5 Amendments and variations are noted on the job documentation for future reference.
 - 6.6 Other post-press tasks are carried out 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.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact Competenz info@competenz.org.nz if you wish to suggest changes to the content of this unit standard.