

Make ready and print multi colour for pad printing

Level 3

Credits 10

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; set up pre- and post-treatment in-line processes for multi colour pad printing; undertake make-ready tasks; and print multi colour pad printing work.

Subfield Printing

Domain Pad Printing

Status Registered

Status date 18 July 2008

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Entry information Prerequisite: Unit 340, *Demonstrate knowledge of safe working practices in the printing and graphic pre-press industries*, or demonstrate equivalent knowledge and skills.
Recommended: Unit 24992, *Print single colour work on a pad printing machine*; and Unit 24993, *Demonstrate knowledge of colour and ink requirements for pad printing*; or demonstrate equivalent knowledge and skills.

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, Hazardous Substances and New Organisms Act 1996, Resource Management Act 1991, Privacy Act 1993, Copyright Act 1994, and their subsequent amendments.
- 2 *Workplace practices* refer to the documented procedures for the machine and/or workplace.

Elements and performance criteria

Element 1

Set up the register systems on the pad printing machine.

Performance criteria

- 1.1 Register systems are set up for multi colour work in accordance with workplace practices.
- 1.2 Faults found while setting up register systems are rectified and/or reported in accordance with workplace practices.

Element 2

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

Performance criteria

- 2.1 Plates for multi colour work are set into the machine to give accurate register with the other colours.

Range colour sequence.
- 2.2 Pads are positioned into the machine, inked up, and aligned to the object being printed.
- 2.3 Trial run is undertaken to ensure smooth running of the pad printing machine.

Element 3

Set up pre- and post-treatment in-line processes for multi-colour pad printing.

Performance criteria

- 3.1 In-line loading is set up in accordance with workplace practices.
- 3.2 In-line pre-treatment is set up in accordance with workplace practices.

3.3 In-line drying is set up in accordance with workplace practices.

3.4 In-line ejection is set up in accordance with workplace practices.

Element 4

Undertake make-ready tasks for multi colour pad printing.

Performance criteria

4.1 Machine is inked up in accordance with workplace practices.

4.2 First multi colour prints are taken and adjustments are made to ensure that the job requirements are met.

4.3 Prints are passed for production run, and approval to run is obtained, in accordance with workplace practices.

Element 5

Print multi colour pad printing work.

Performance criteria

5.1 First colour is printed to meet the job requirements.

5.2 Second colour and/or subsequent colours is/are printed to meet the job requirements.

5.3 Quality control procedures used to maintain required production standards are followed in accordance with workplace practices.

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.

5.4 Problems encountered during the print run are identified, their causes explained, and methods of solving them described.

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.

- 5.5 Problems encountered during the print run are solved in accordance with workplace practices.
- 5.6 Quantity printed meets requirements of the job documentation.
- 5.7 Post-press tasks are carried out in accordance with workplace practices.

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](mailto:Competenz_info@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.