

## 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.

**Subfield** Printing

**Domain** Dry Offset

**Status** Registered

**Status date** 27 October 2006

**Date version published** 12 December 2008

**Planned review date** 31 December 2011

**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.

**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>.

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### 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, Resource Management Act 1991, and their subsequent amendments.
- 2 *Workplace practices* refer to the documented procedures for the machine and/or workplace.

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## Elements and performance criteria

### Element 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.

### Element 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.

### Element 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.

### Element 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.

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#### 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.

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#### 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.