

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.

Subfield Printing

Domain Dry Offset

Status Registered

Status date 27 October 2006

Date version published 12 December 2008

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Entry information Open.

Replacement information This unit standard replaced unit standard 12371.

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, 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.

Elements and performance criteria

Element 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.
- 1.2 Trade terms and vocabulary applicable to dry offset printing are used in the production process being undertaken.

Element 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.

Element 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.

Element 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.

Element 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.

Element 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.

Element 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.

Element 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.

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.