

Title	Demonstrate knowledge of the requirements of a print station and identify printing faults for fibreboard packaging		
Level	2	Credits	10

Purpose	People credited with this unit standard are able to demonstrate knowledge of: a print station used in the workplace and describe its functions; inks, ink additives, and ink hazards; workplace practices and terminology relating to stereo usage; and identify printing faults and describe their causes.
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Classification	Fibreboard Packaging > Fibreboard Packaging Production
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Available grade	Achieved
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Explanatory notes

- 1 Candidates must follow 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 Definition
Workplace practices refer to the documented procedures for the machine and/or workplace.

Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of a print station used in the workplace and describe its functions.

Evidence requirements

- 1.1 Main components of a print station are identified, and their functions described.

Range	includes but is not limited to – ink transfer system, doctor roll, doctor blade, print cylinder, impression roll, pull rolls, pull collar rolls.
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- 1.2 Importance of centring the print cylinder between each job is explained in terms of the printing inaccuracies that may result from failure to do so.
- 1.3 Dials and gauges that indicate the settings of the various rolls identified in evidence requirement 1.1 are identified, and the function of each is described.

- 1.4 Relationships between calliper and the settings of the rolls are explained and the ability to adjust gaps and settings is demonstrated in accordance with workplace practices.

Outcome 2

Demonstrate knowledge of inks, ink additives, and ink hazards.

Evidence requirements

- 2.1 Inks used in the workplace are described in terms of their components.
- 2.2 Ink additives available in the workplace are described in terms of their use.
- Range may include but is not limited to – antifoaming agents, extenders, pH adjusters, water.
- 2.3 Hazards generated by inks are described, and Material Safety Data Sheets (MSDS) are used to identify the actions to be taken in the event of an accident.
- 2.4 Variations in ink viscosity and pH levels are explained and the problems associated with these levels being too high or too low are described.
- 2.5 Systems used for measuring ink viscosity and pH levels are explained in terms of workplace practices.
- 2.6 Viscosity measuring device is used in accordance with workplace practices.

Outcome 3

Demonstrate knowledge of workplace practices and terminology relating to stereo usage.

Evidence requirements

- 3.1 Requirements for handling and storing stereos are described in terms of workplace practices.
- 3.2 'Plate', 'slug' and 'stereo' are defined, and the functions of each are described.
- Range height, backing sheets, grip edge, centre line, flexible mounting system.

Outcome 4

Identify printing faults and describe their causes.

Evidence requirements

- 4.1 Printing faults are identified from physical samples or photographs or diagrams.

Range faults may include but are not limited to – ink smear or ink smudge, uniformly incorrect colour shade, halo, print out of register or print askew, missing print, poor definition, printing crush, uneven ink coverage, image distortion, ink fill in, poor trapping, dirty printing, colour shade variations; evidence is required for four faults.

4.2 A minimum of two causes and one corrective action are described for each fault identified in evidence requirement 4.1.

Range the causes and corrective actions described are those most often experienced in the workplace.

Replacement information	This unit standard replaced unit standard 10103, unit standard 10104, and unit standard 10111.
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Planned review date	31 December 2017
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 September 2012	N/A

Consent and Moderation Requirements (CMR) reference	0005
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR 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.