

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

<b>Purpose</b>	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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<b>Classification</b>	Fibreboard Packaging > Fibreboard Packaging Production
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<b>Available grade</b>	Achieved
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### Guidance Information

- 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 performance criteria

#### Outcome 1

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

#### Performance criteria

- 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.
- 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 performance criterion 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.

### **Performance criteria**

- 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.

### **Performance criteria**

- 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.

**Performance criteria**

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 performance criteria 4.1.

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

<b>Replacement information</b>	This unit standard was replaced by skill standard 40327. This unit standard replaced unit standard 10103, unit standard 10104, and unit standard 10111.
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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	20 September 2012	31 December 2027
Review	2	28 November 2024	31 December 2027

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