

## 40327 Explain the requirements of a print station, and identify printing faults in fibreboard packaging

<b>Kaupae   Level</b>	2
<b>Whiwhinga   Credit</b>	10
<b>Whāinga   Purpose</b>	<p>This skill standard is intended for people who are new to the fibreboard packaging industry or are new to assistant operator roles. They will be able to explain the requirements of a print station including machinery and the use of inks and ink additives, and identify printing faults and their corrective actions.</p> <p>This skill standard aligns with the New Zealand Certificate in Fibreboard Packaging (Level 2) [Ref: 1818].</p>

### Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

<b>Hua o te ako   Learning outcomes</b>	<b>Paearu aromatawai   Assessment criteria</b>
1. Explain print station machinery used in the fibreboard industry.	a. Identify the main components of a print station and describe their functions.
	b. Explain the importance of centring the print cylinder between each job and any printing inaccuracies resulting from a failure to do so.
	c. Identify dials and gauges that indicate the machine settings and describe their functions.
	d. Explain how to adjust machine settings for components identified in assessment criteria 1a.
2. Describe the use of inks and ink additives in the fibreboard packaging industry, and their associated hazards and risks.	a. Describe the components of inks used in a fibreboard packaging workplace.
	b. Describe the use of ink additives available in a fibreboard packaging workplace.
	c. Describe hazards and risks generated by inks and identify actions to be taken in the event of a workplace accident.
	d. Explain potential variations in ink characteristics and describe the associated problems.

Hua o te ako   Learning outcomes	Paearu aromatawai   Assessment criteria
3. Describe the function of stereotypes, and their handling and storage requirements.	a. Describe 'plate', 'stereo' and 'slug' and describe their functions.
	b. Describe the requirements for handling and storing plates, stereotypes, and slugs.
4. Identify printing faults and describe their causes.	a. Identify printing faults from samples.
	b. Describe the causes and corrective actions for faults identified in assessment criterion 4a.

### Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

Assessment specifications:

- Samples may include photographs, diagrams or physical samples.
- A minimum of four faults must be identified. For each identified fault, a minimum of two probable causes and one corrective action for each cause must be evidenced.

Evidence presented for assessment against this skill standard must be consistent with safe working practices and be in accordance with applicable service information, workplace procedures and legislative requirements.

#### Definitions

*Ink additives* refer to substances which can improve ink characteristics including antifoaming agents, extenders, pH adjusters or water.

*Print station components* may include ink transfer system, doctor roll, doctor blade, print cylinder, impression roll, pull rolls, pull collar rolls, print heads, rubber rollers, drums.

*Workplace procedures* refer to organisation policies and procedures that are documented in memo, electronic, or manual format and available in the workplace. They may include but are not limited to – standard operating procedures, site specific procedures, site safety procedures, equipment operating procedures, quality assurance procedures, product quality specifications, manufacturer's requirements, references, approved codes of practice, housekeeping standards, environmental considerations, on-site briefings, supervisor's instructions, and procedures to comply with legislative and local body requirements relevant to the fibreboard packaging industry.

### Ngā momo whiwhinga | Grades available

Achieved

### Ihirangi waitohu | Indicative content

- Safety Data Sheets for inks and ink additives.
- Identification of printing faults such as 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, or colour shade variations.

**Flexographic and offset printers only**

- Systems for measuring ink viscosity and pH levels.
- Use of a viscosity measuring device.

**Rauemi | Resources**

Legislation relevant to this skill standard includes but is not limited to:

- Health and Safety at Work Act 2015.

Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this skill standard will take precedence for assessment purposes, pending review of this skill standard. Legislation can be accessed at:

<https://www.legislation.govt.nz>.

**Pārongo Whakaū Kounga | Quality assurance information**

<b>Ngā rōpū whakatau-paerewa   Standard Setting Body</b>	Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council
<b>Whakaritenga Rārangi Paetae Aromatawai   DASS classification</b>	Manufacturing > Fibreboard Packaging > Fibreboard Packaging Production
<b>Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga   CMR</b>	0013

<b>Hātepe   Process</b>	<b>Putanga   Version</b>	<b>Rā whakaputa   Review Date</b>	<b>Rā whakamutunga mō te aromatawai   Last date for assessment</b>
<b>Rēhitatanga   Registration</b>	1	28 November 2024	N/A
<b>Kōrero whakakapinga   Replacement information</b>	This skill standard replaced unit standard 27781.		
<b>Rā arotake   Planned review date</b>	31 December 2029		

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development at [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) to suggest changes to the content of this skill standard.