

40329**Describe glues and gluing styles used in the fibreboard packaging industry**

Kaupae Level	3
Whiwhinga Credit	10
Whāinga Purpose	<p>This skill standard is intended for people who are already working in the fibreboard packaging industry and want to progress to an operator role. They will be able to describe glues, gluing styles, and their operating requirements for fibreboard packaging.</p> <p>This skill standard aligns with the New Zealand Certificate in Fibreboard Packaging (Level 3) with strands in Case Converting, Case Corrugating, and Carton Converting [Ref: 1819].</p>

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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Describe glues used in the fibreboard packaging industry.	a. Identify glue formulations used in the fibreboard packaging industry.
	b. Describe the characteristics of at least one hot melt and one cold glue formulation in terms of the manufacturers recommended open time and operating temperature range.
	c. Describe faults resulting from operating hot melt glue outside of the manufacturer's recommended temperature range.
	d. Describe the advantages and disadvantages of hot melt and cold glue formulations in terms of job and machine requirements.
	e. Compare the advantages and disadvantages of EVA and PVA formulations in terms of job requirements.
	f. Describe factors to consider when using glues to meet job requirements and the production process being undertaken.

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
2. Identify gluing styles and describe their specific production requirements for fibreboard packaging.	a. Identify gluing styles from samples.
	b. Describe loading requirements for each gluing style.
	c. Describe problems that can occur during the gluing process for each gluing style.
	d. Describe adverse effects of warp for each gluing style and the corrective actions required.
	e. Describe the prefolding needs of each style, as determined by the presence or absence of warp, and explain the presence and location of creases.

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

Assessment specifications:

- Evidence presented against learning outcome 1 must include hot melt glues and cold glues EVA, PVA.
- Evidence presented against learning outcome 2 must include a minimum of two gluing styles identified from diagrams, photographs or samples.
- 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:

Cold glues include ethylene-vinyl acetate (EVA) and polyvinyl acetate (PVA).

Job documentation refers to the documentation that is used in the workplace that contains the instructions and requirements for a particular production job. This may include but is not limited to – workplace orders, production orders, workplace specifications, samples, lay cards.

Job requirements refer to specific requirements for the print job at hand. These requirements may or may not be covered in the job documentation and may include special instructions, quality requirements expected by the customer, and/or production standards as set down by the fibreboard packaging workplace and/or organisation.

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**Gluing styles and factors**

- Gluing styles such as full flap skillet, reverse tuck-in top and bottom, aerostyle tuck-in top and bottom, 4 corner, 6 corner, lock bottom/crash lock, straight line and side wall glue.
- Consideration of factors when gluing such as substrate, flexibility, temperature, working time, life, humidity, economy, viscosity, machine or hand application, strength, acidity, previous printing processes, speed of drying and compatibility to substrate.

Hot melt gluing faults

- Hot melt gluing faults resulting from too high a temperature such as glue charring, glue scorch, reduced adhesion, increased fluidity or excessive application.
- Hot melt faults resulting from too low a temperature such as reduced penetration of substrates, poor bonding, decreased fluidity, inadequate application or poor cut off.

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

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

Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	28 November 2024	N/A
Kōrero whakakapinga Replacement information	This skill standard replaced unit standard 27796.		
Rā arotake Planned review date	31 December 2029		

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council at qualifications@hangaarorau.nz if you wish to suggest changes to the content of this skill standard.