

40320**Explain rotary die cutting machinery and identify die cutting faults in fibreboard packaging**

Kaupae Level	2
Whiwhinga Credit	5
Whāinga Purpose	<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 rotary die cutting machinery used in the fibreboard packaging industry and identify rotary die cutting 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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Explain rotary die cutting machinery used in the fibreboard packaging industry.	a. Identify the main components of rotary die cutting machinery and describe their functions.
	b. Explain the procedures used in the workplace for zeroing, centring, changing impression pressures, releasing and reapplying the drum lock on rotary die cutting machinery.
	c. Explain the relationship between anvil wear, circumference, and speed in terms of the potential faults that result from changes between these factors.
	d. Describe die rubbering requirements in terms of procedures used in the workplace and the consequences of incorrect rubber mounting.
	e. Describe different types of cutting rules used in the workplace.
	f. Explain the requirements for handling and storing dies in the workplace.
2. Identify rotary die cutting faults and describe their causes and corrective actions.	a. Identify rotary die cutting faults from samples.
	b. Describe causes and corrective actions for each identified fault in 2a.

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

Assessment specifications:

- Samples may include photographs, diagrams or physical samples.
- A minimum of six faults must be identified. For each identified fault, a minimum of two 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

Die cutting faults include variations in blank size, board fractured, cracked or damaged at creasing, board bends at non specified locations during creasing, board not cut to specification, board not creased to specification, board fails to bend accurately along crease locations, intermittent cutting, waste or scrap ejection not to specification, uneven cutting and/or creasing, and die to board variation.

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

Rotary die cutting machinery

- Identification of rotary die cutting machinery components including die cylinder, anvil or die blanket, pin stripper and dicar equalisers.
- Die rubbering requirements such as durometer, width, height, style and position.
- Different types of rules such as cutting, creasing and perforating.
- Awareness of the importance of correct machine set up.
- Identification of rotary die cutting machinery faults and corrective actions.

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 Manufacturing, Engineering and Logistics Workforce 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 27787.		
Rā arotake Planned review date	31 December 2029		

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