

40340 Produce starch to meet production requirements for fibreboard packaging

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 into an operator role. They will be able to produce a batch of starch to meet production requirements and prepare starch for use in the production of 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>
Whakaakoranga me mātua oti Pre-requisites	Unit standard 340, <i>Demonstrate knowledge of safe working practices in the print industry</i> , or demonstrate equivalent knowledge and skills.

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

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Confirm job requirements for preparation of starch.	a. Check job documentation to ensure that all specifications for the process being undertaken are met and report any discrepancies.
	b. Select recipe for starch preparation to meet job requirements.
	c. Confirm materials are available in sufficient quantities to make a full batch before mixing is commenced, as determined by the job documentation.

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
2. Produce starch and prepare for use in production of fibreboard packaging.	a. Make batch of starch following recipe to meet job and quality requirements.
	b. Carry out and record quality checks.
	c. Undertake corrective actions immediately where checks indicate conditions are outside the tolerance limits as specified in the recipe.
	d. Deliver starch to corrugator tanks to meet quality requirements.
	e. Store, handle and label starch to prevent damage and hazards to personnel.
3. Describe the importance of mixing starches accurately.	a. Describe the effects on board manufacture when incorrect quantities of water and materials are used.
	b. Describe the effects on starch condition when the recipe sequence is not followed.
	c. Describe the effects on board manufacture when starch conditions are outside tolerance limits including viscosity, gel point, tackiness and temperature.

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

Assessment specifications:

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:

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 fibreboard packaging 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

Starch preparation

- Check adequate materials are available in sufficient quantities to make a full batch before commencing mixing.
- Following starch recipe.

Starch production

- Starch production to meet quality requirements including correct sequence as per recipe, quantities and temperature.
- Quality checks for viscosity, gel point, tackiness, and temperature.
- Iodine checks to test for bonding strength.
- Understanding of required corrective actions when checks indicate starch conditions are outside tolerance limits.

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 27818.		
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.