

Title	Make starch to meet production requirements for fibreboard packaging		
Level	3	Credits	10

Purpose	People credited with this unit standard are able to: check job documentation and select the required materials for making a batch of starch; make up a batch of starch and prepare starch for use; and demonstrate knowledge of the importance of mixing starches accurately.
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Classification	Fibreboard Packaging > Fibreboard Packaging Production
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Available grade	Achieved
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Prerequisites	Unit 340, <i>Demonstrate knowledge of safe working practices in the print industry</i> , or demonstrate equivalent knowledge and skills.
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Guidance Information

- 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.
- 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 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 workplace.
Workplace practices refer to the documented procedures for the machine and/or workplace.

Outcomes and performance criteria

Outcome 1

Check job documentation and select the required materials for making a batch of starch.

Performance criteria

- 1.1 Job requirements are read and interpreted from job documentation or production control system.
- 1.2 Recipe selected for starch preparation meets job requirements.
- 1.3 Availability of materials is confirmed against the recipe before mixing is commenced.

Outcome 2

Make up a batch of starch and prepare starch for use.

Performance criteria

- 2.1 Batch of starch is made up following the recipe selected and to meet job requirements.

Range sequence as per recipe, quantities, temperatures.
- 2.2 Quality checks are carried out and recorded in accordance with workplace practices.

Range includes but is not limited to checks for – viscosity, gel point, tackiness, temperature.
- 2.3 Corrective actions are immediately undertaken where checks indicate conditions are outside the tolerance limits as specified in the recipe.
- 2.4 Starch of usable quality is delivered to the corrugator tanks.
- 2.5 Starches are stored, handled and labelled in accordance with workplace practices to prevent damage and hazards to personnel.

Outcome 3

Demonstrate knowledge of the importance of mixing starches accurately.

Performance criteria

- 3.1 Use of incorrect quantities of water and materials are explained in terms of the effects on board manufacture.
- 3.2 Consequences of not following the recipe sequence as specified are explained in terms of the effects on starch condition.
- 3.3 Consequences of starch conditions outside tolerance limits are explained in terms of the effects on board manufacture.

Range viscosity, gel point, tackiness, temperature.

- 3.4 Actions to be taken when checks show starch conditions are outside tolerance limits are explained in terms of workplace practices.

Replacement information	This unit standard was replaced by skill standard 40340. This unit standard replaced unit standard 3769.
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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

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