

<b>Title</b>	<b>Make starch to meet production requirements for fibreboard packaging</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	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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<b>Classification</b>	Fibreboard Packaging > Fibreboard Packaging Production
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<b>Available grade</b>	Achieved
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<b>Entry information</b>	
<b>Critical health and safety prerequisites</b>	Unit 340, <i>Demonstrate knowledge of safe working practices in the print industry</i> , or demonstrate equivalent knowledge and skills.

### Explanatory notes

- 1 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.
- 2 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 evidence requirements

#### Outcome 1

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

### **Evidence requirements**

- 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.

### **Evidence requirements**

- 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.

### **Evidence requirements**

- 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.

<b>Replacement information</b>	This unit standard replaced unit standard 3769.
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<b>Planned review date</b>	31 December 2017
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 September 2012	N/A

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

#### Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

#### Comments on this unit standard

Please contact [Competenz info@competenz.org.nz](mailto:Competenz info@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.