

<b>Title</b>	<b>Process textile fibres in a blending system</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe blending system machinery; blend fibre into blending bin; transfer fibre from bin; apply additives to blended fibre; identify and fix operational and product faults; and clean blending equipment and work area.
----------------	---

<b>Classification</b>	Textiles Manufacture > Core Yarn Processing
-----------------------	---

<b>Available grade</b>	Achieved
------------------------	----------

---

### Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to the: Health and Safety at Work Act 2015.
- 2 Definition  
*Workplace procedures* refer to procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, site safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, and procedures to comply with legislative and local body requirements.
- 3 Assessment information
  - a All activities and evidence must be in accordance with workplace procedures.
  - b Competence will be demonstrated on the type of blending system installed in the candidate's workplace – this may have manual or automatic bin unloading.

---

### Outcomes and performance criteria

#### Outcome 1

Describe blending system machinery.

#### Performance criteria

- 1.1 Blending system sections are described in terms of their function and operation.
 

<b>Range</b>	may include but is not limited to – bale opening and breaking, blending bins, bin spreading device, bin unloading device, fibre opening, oil and water application, ducting, dust extraction, metal detection.
--------------	--

**Outcome 2**

Blend fibre into blending bin.

**Performance criteria**

2.1 Personal protective equipment is used.

2.2 Safe work methods are demonstrated.

2.3 Machinery is operated.

Range includes but is not limited to – bale opening.

2.4 Blending system is prepared for operation.

Range blend components identified and present, receiving bin empty and clean, ducting set to receiving bin.

2.5 Check fibre being blended is free from contamination.

Range may include but is not limited to – packing materials, straps, clips, twine.

2.6 Fibre is blended, maintaining blend proportions.

2.7 Records are kept.

**Outcome 3**

Transfer fibre from bin.

**Performance criteria**

3.1 Machinery is operated.

3.2 Bin emptying system is prepared for operation.

Range receiving bin empty and clean, ducting set to receiving bin, bin emptying system set to operate.

3.3 Bin is emptied and fibre transfer is verified.

**Outcome 4**

Apply additives to blended fibre.

**Performance criteria**

4.1 Additives are applied to blended fibre.

Range includes but is not limited to – water, processing lubricant, rate of application.

**Outcome 5**

Identify and fix operational and product faults.

**Performance criteria**

5.1 Product faults are identified and corrective action is taken to rectify them.

Range faults including but are not limited to – component usage out of proportion, oil and water application rates.

5.2 Minor maintenance is carried out.

Range may include but is not limited to – lock out or tag out, unblock machine, unblock ducting and switches, replace flexible ducting.

**Outcome 6**

Clean blending equipment and work area.

**Performance criteria**

6.1 Blending equipment is isolated.

6.2 Work area and equipment is kept clean.

6.3 Blending and oiling machinery is cleaned at batch end.

6.4 Bins and ducting are cleaned.

6.5 Waste fibre is collected and sorted according to type to prevent contamination.

---

<b>Planned review date</b>	31 December 2026
----------------------------	------------------

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	18 June 1995	31 December 2019
Revision	2	8 August 1997	31 December 2019
Revision	3	18 July 2000	31 December 2019
Revision	4	10 October 2001	31 December 2019
Revision	5	12 August 2004	31 December 2019
Review	6	23 April 2008	31 December 2019
Review	7	19 May 2016	31 December 2019
Reinstatement	8	24 March 2022	N/A

**Consent and Moderation Requirements (CMR) reference**

0030

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**Comments on this unit standard**

Please contact Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.