

Title	Set up a blending system to process textile fibres		
Level	3	Credits	10

Purpose	People credited with this unit standard are able to: describe blending system set-up and emergency spillage procedures; set up equipment for blending fibre into bin; set up system to transfer fibre from bin; set up blending lubricant and water application system; maintain blending system; and keep records.
----------------	---

Classification	Textiles Manufacture > Core Yarn Processing
-----------------------	---

Available grade	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.
 - c Competence will be demonstrated on a range of products produced in the candidate's workplace.
- 4 Recommended skills and knowledge
Unit 4178, *Process textile fibres in a blending system*, or demonstrate equivalent knowledge and skills.

Outcomes and performance criteria

Outcome 1

Describe blending system set-up and emergency spillage procedures.

Performance criteria

- 1.1 Machine variables that can be changed during set-up are identified and described in terms of their effect on processing and product quality.
- Range may include but is not limited to – fibre feeding rate, opener settings, unloading equipment, oil and water application.
- 1.2 Chemical spillage emergency procedures are described.

Outcome 2

Set up equipment for blending fibre into bin.

Performance criteria

- 2.1 Guards and safety equipment are checked and set up.
- 2.2 Equipment is checked for operating condition.
- Range may include but is not limited to – machine lubrication, feed sheets and belts, hopper lattices, opener and/or cleaner grills, extraction equipment, cleanliness.
- 2.3 Ducting and switching equipment is selected and checked to deliver fibre to the specified bin.
- 2.4 Machine settings are adjusted to produce blended fibre to specification.
- 2.5 Instrumentation and control devices are set.

Outcome 3

Set up system to transfer fibre from bin.

Performance criteria

- 3.1 Guards and safety equipment are checked and operated.
- 3.2 Ducting and switching equipment are selected and checked to deliver fibre to the specified bin.
- 3.3 Equipment is checked for cleanliness and condition of operating parts.
- 3.4 Machine settings are adjusted to produce blended fibre to specification.
- 3.5 Instrumentation and control devices are set.

Outcome 4

Set up blending lubricant and water application system.

Performance criteria

- 4.1 Blending lubricant and water are prepared.
- 4.2 Oil and water supplies are checked.
- 4.3 Application system is set to apply the specified quantity of oil and water.

Outcome 5

Maintain blending system.

Performance criteria

- 5.1 Machine isolation procedures are completed.
- 5.2 Maintenance checks are completed and if required, corrective action is taken.

Range may include but is not limited to – machine lubrication, ducting switches, ducting, feed sheets and belts, hopper lattices.

Outcome 6

Keep records.

Performance criteria

- 6.1 Records are maintained.

Range may include but is not limited to – production records, maintenance records, machine operating records, incident records.

Planned review date	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 if you wish to suggest changes to the content of this unit standard.