

Title	Set-up a gilling machine to gill sliver or top		
Level	3	Credits	9

Purpose	This unit standard is for people working in top making or semi-worsted processing. People credited with this unit standard are able to: demonstrate knowledge of gilling machine set up; prepare gill for operation; and run gill to optimise machine settings.
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Classification	Textiles Manufacture > Top Making, Semi-Worsted and Worsted Processing
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Available grade	Achieved
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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
All activities and evidence must be in accordance with workplace procedures.
- 4 Recommended skills and knowledge
Unit 3131, *Gill sliver or top on a gilling machine*.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of gilling machine set-up.

Performance criteria

- 1.1 Gilling machine set-up conditions are calculated according to machine specifications.

Range draft, sliver weight calculation, ratch, sliver tension.

1.2 Fibre and sliver properties are described in terms of their effects on processing and product quality.

Range fibre length, fibre distribution, sliver evenness.

1.3 Fibre types used in the workplace are identified and their performance in gilling described.

Outcome 2

Prepare gill for operation.

Performance criteria

2.1 Condition of faller bars is checked to meet machine operating requirements, and if required, gill is cleaned.

2.2 Input creel is loaded.

2.3 Gill settings are adjusted to produce processed fibre specified in work instructions.

Range may include but is not limited to – ratch, draft, autoleveller, speed, coiler, break detectors, metre counters, bump and ball formation.

2.4 Equipment for applying moisture and additives is checked and set.

2.5 Instrumentation and control installed on equipment in the workplace are set.

Range devices installed on equipment in workplace.

Outcome 3

Run gill to optimise machine settings.

Performance criteria

3.1 Machine is operated.

3.2 Test samples are taken.

3.3 Test results are assessed and machine adjustments made to achieve product quality specification.

Range may include but is not limited to – count, fibre diagram, Uster Spectrogram, moisture content, oil content, fibre content.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	3 April 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
Rollover and Revision	6	25 July 2007	31 December 2019
Rollover	7	21 May 2010	31 December 2019
Review	8	19 May 2016	31 December 2019
Reinstatement	9	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.