

Mill fabric

Level 3

Credits 12

Purpose This unit standard is for people working in the fabric finishing industry. People credited with this unit standard are able to: demonstrate knowledge of milling and milling machines; prepare and mill fabric; and carry out cleaning and minor maintenance of milling machinery.

Subfield Textiles Manufacture

Domain Fabric Finishing

Status Registered

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Entry information Open.

Accreditation Evaluation of documentation and visit by NZQA and industry.

Standard setting body (SSB) Competenz

Accreditation and Moderation Action Plan (AMAP) reference 0030

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

Special notes

- 1 Performance of the elements must comply with the Health and Safety in Employment Act 1992 and workplace procedures.
- 2 Workplace productivity and quality requirements must be met by the candidate during assessment against this unit standard.
- 3 Definitions
Workplace procedures refer to the verbal or documented procedures for performing activities including health and safety, operational, environmental and quality management requirements. They refer to manuals, manufacturer's specification, codes of practice, or policy statements.

Product specification refers to the document which accompanies each manufacturing order. This specifies all of the parameters for production of the fabric. This may include the fibre specification, the shade, dye bath parameters, machinery to be used and finishing procedures.

Elements and performance criteria

Element 1

Demonstrate knowledge of milling and milling machines.

Performance criteria

- 1.1 Milling is described in terms of the process, reasons for carrying out the process, and effects of preceding and subsequent processes.
- Range reasons – consolidation, handle, appearance.
- 1.2 Fabric types that are milled are identified and described.
- Range fabrics used in the workplace, characteristics, rate of milling, milling faults.
- 1.3 Milling machine sections are identified and described in terms of their function and operation.
- Range machine controls, energy controls, draft board, throat, pressure rollers and compaction zone.
- 1.4 Chemicals used in milling are identified and described in terms of their function.
- Range detergent, softeners, insect resist, acid.
- 1.5 Safe handling procedures for the storage and use of milling chemicals are demonstrated according to workplace procedures.
- 1.6 Safety procedures for the use of a milling machine are described according to workplace procedures.

Element 2

Prepare and mill fabric.

Performance criteria

- 2.1 Fabric is loaded into the milling machine according to workplace procedures and the product specification.
- 2.2 Machine settings are made according to workplace procedures and the product specification.
- Range temperature, liquor level, rate of compaction, run time.

- 2.3 Chemicals are mixed and added according to workplace procedures and the product specification.
Range detergent, insect resist, pH adjustment.
- 2.4 Machine is operated according to workplace procedures.
- 2.5 Processing conditions produce fabric milled to product specification.
Range moisture uptake in fabric, fabric width and length, temperature.
- 2.6 Rinsing is carried out according to workplace procedures.
- 2.7 Records are maintained according to workplace procedures.
- 2.8 Milling faults are identified and corrective action taken according to workplace procedures.
Range rig marks, rolled and milled selvages, overmilling, chemical residues.

Element 3

Carry out cleaning and minor maintenance of milling machinery.

Performance criteria

- 3.1 Fibre is removed from milling machine so that contamination of following batches is prevented.
- 3.2 Milling area is cleaned according to workplace procedures.
- 3.3 Minor maintenance is carried out according to workplace procedures.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP 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.