

Title	Vacuum fettle a textile carding machine		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of fettling; vacuum fettle swifts and doffers; vacuum fettle card rollers; and keep machine, equipment, and work area clean.
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Classification	Textiles Manufacture > Core Yarn 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 – 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 guidance
Competency is intended to be demonstrated on the type of carding machine installed in the candidate's workplace.
- 4 Assessment information
All evidence must be in accordance with workplace procedures.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of fettling.

Performance criteria

- 1.1 The process, factors and need for fettling are described in terms of fettling technique, effect on carding performance, prevention of colour contamination, and prevention of fibre contamination.

Outcome 2

Vacuum fettle swifts and doffers.

Performance criteria

- 2.1 Swifts and doffers are prepared for fettling.
Range cylinder drive set, traverse unit in place, nozzle set.
- 2.2 Vacuum equipment is prepared for fettling.
Range pump, hoses, nozzle, traverse units, roller drive or drill.
- 2.3 Fibre is removed from roller.
- 2.4 Card wire is checked for wear and damage and reporting procedures followed where wear and/or damage is detected.

Outcome 3

Vacuum fettle card rollers.

Performance criteria

- 3.1 Machine is prepared for fettling.
- 3.2 Clothing and shoes worn are safe and prevent damage to the card wire.
- 3.3 Protective pads and boards in place to prevent damage to wire.
- 3.4 Vacuum equipment is prepared for fettling.
Range pump, hoses, nozzle, traverse units, roller drive or drill.
- 3.5 Card rollers cleaned and fettled.
Range fibre removed, metallic wire degreased.
- 3.6 Card wire is checked for wear and damage, and reporting procedures are followed where wear or damage is detected.
- 3.7 Condition of roller belts, bearings, and chains meet manufacturer's requirements.

Outcome 4

Keep machine, equipment, and work area clean.

Performance criteria

- 4.1 Fettleings are sorted and collected.

4.2 Undergrids and roller covers are clean and free of droppings.

4.3 Vacuum filters are clean and receiving bin is emptied.

Replacement information	This unit standard and unit standard 4180 were replaced by unit standard 32920.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

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 2023
Review	8	24 March 2022	31 December 2023

Consent and Moderation Requirements (CMR) reference	0030
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.