

Title	Spin yarn on a woollen ring spinning machine		
Level	2	Credits	8

Purpose	People credited with this unit standard are able to: demonstrate knowledge of woollen spinning and the woollen spinning machine; prepare and operate a woollen spinning machine; identify and fix operational and product faults; and keep spinning machine and work area clean.
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Classification	Textiles Manufacture > Woollen 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 Definitions

Spools refer to bobbins in some woollen spinning plants. Spools contain the slubbing produced from the card.

Workplace procedures refer to the procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, 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 a woollen ring spinning machine used in the candidate's workplace.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of woollen spinning and the woollen spinning machine.

Performance criteria

- 1.1 Woollen spinning is described in terms of purpose and yarn characteristics.

1.2 Sections of a woollen spinning frame are described in terms of their function.

Range may include – creel, drafting zone, false twist, spindles, ring and traveller, waste collection, headstock, machine controls, spindle tape, spindle brake, lappet, oiling device, waste recycling.

1.3 Spinning faults are identified and described in terms of significance and corrective action.

Range may include – contamination, double ends, thick and thin yarn, twist variation, piecing faults, package shape, package density, oil and grease marks, excessive end breaks, traveller wear, light and heavy ends.

Outcome 2

Prepare and operate a woollen spinning machine.

Performance criteria

2.1 Personal protective equipment is used.

2.2 Safe work methods are demonstrated.

2.3 Machine is prepared for operation.

Range batch identification, creel loaded, travellers fitted, thread up and run on, empty tubes in place.

2.4 Yarn is spun.

Range piece up end breaks, pull back ends on spool, thread drafting zone, doff full yarn packages, change spool sets, maintain ring oil, adjust spool tension, fake twist revolutions per minute.

2.5 Product is handled and recorded.

Outcome 3

Identify and fix operational and product faults.

Performance criteria

3.1 Yarn faults are identified and rectified or reported.

Range may include – contamination, double ends, thick and thin yarn, twist variation, piecing faults, package shape, package density, oil and grease marks, excessive end breaks, wear, piecing faults, light/heavy ends.

3.2 Spinning machine malfunction is identified and rectified or reported.

Outcome 4

Keep spinning machine and work area clean.

Performance criteria

- 4.1 Work area and equipment is kept clean during processing.
- 4.2 Spinning machine is cleaned at end of a batch.
- 4.3 Waste fibre is collected and sorted according to type to prevent contamination.

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	18 June 1995	31 December 2023
Revision	2	8 August 1997	31 December 2023
Revision	3	18 July 2000	31 December 2023
Revision	4	10 October 2001	31 December 2023
Revision	5	12 August 2004	31 December 2023
Review	6	23 April 2008	31 December 2023
Review	7	27 January 2022	N/A

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>.

Comments on this unit standard

Please contact the 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.