

Title	Assembly wind yarn		
Level	2	Credits	6

Purpose	People credited with this unit standard are able to: demonstrate knowledge of ring twisting and the ring twisting machine; prepare and operate ring twisting machine; identify and fix operational and product faults; and clean twisting machine and work area.
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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 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 ring twisting and the ring twisting machine.

Performance criteria

- 1.1 Twisted yarn types are identified by twisted yarn construction.

Range twist direction, yarn ply, hard twist, stipples, marls, yarns processed in the workplace.

1.2 The function and operation of the parts of the ring twisting machine are described.

Range machine controls, creel, tension devices, delivery rollers, knock-off devices, traveller, ring, spindle, ring rail, lappets, spindle brakes, builder motion, headstock, oiling device.

1.3 Reasons for ring twisting are explained in terms of product characteristics and end uses.

Outcome 2

Prepare and operate ring twisting machine.

Performance criteria

2.1 Machine is operated.

2.2 Ring twisting machine is prepared for operation.

Range yarn identified, creel loaded, thread up and yarn sequence, tension devices, knock-off devices, travellers, tube in place.

2.3 Test sample is produced.

2.4 Yarn is processed.

Range creel maintained, yarn breaks mended, full packages doffed, test samples taken.

2.5 Yarn joins are made.

Range knot, splice, twist at join maintained.

2.6 Production is handled and records are kept.

Outcome 3

Identify and fix operational and product faults.

Performance criteria

3.1 Corrective action is taken to rectify yarn faults identified during processing.

Range yarn breaks, thick and thin, yarn appearance, package build, uneven twist, over twist.

3.2 Twisting machine malfunction is identified and corrective action taken.

Outcome 4

Clean twisting machine and work area.

Performance criteria

- 4.1 Machine and work area are kept clear of fibre and waste to prevent contamination.
- 4.2 Twisting machine is cleaned at batch end.
- 4.3 Waste is collected and sorted for recycling.

Replacement information	This unit standard and unit standard 4188 were replaced by unit standard 32925.
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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>.