

Title	Twist yarn on a twisting machine		
Level	2	Credits	8

Purpose	People credited with this unit standard are able to: demonstrate knowledge of twisting and a twisting machine; prepare and operate a 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 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 Range
Twisting machine may include – 2 for 1 twisting machine, ring twisting machine.
- 4 Assessment information
All activities and evidence must be in accordance with workplace procedures.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of twisting and a twisting machine.

Performance criteria

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

Range may include but is not limited to – twist direction, yarn ply, hard twist, stipples, marls, yarns processed in the workplace.

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

Range may include but is not limited to – machine controls, pot, yarn tensioner, spindle brake, yarn guide, overfeed roller, take-up roller and package, tension weights, balloon limiter, cleaners, flyer.

1.3 Reason for twisting is described in terms of finished product characteristics and end-uses.

Outcome 2

Prepare and operate a twisting machine.

Performance criteria

2.1 Personal protective equipment is used.

2.2 Safe work methods are demonstrated.

2.3 Machine is prepared.

Range may include but is not limited to – yarn identified, package located in pot, thread-up, tension devices, unwind direction correct, take-up package in place, weights fitted, knock off devices, yarn sequence, travellers, tube in place.

2.4 Machine is operated.

2.5 Test sample is produced.

2.6 Yarn is processed.

Range may include but is not limited to – supply package maintained, take-up package doffed, creel maintained, yarn breaks mended, full packages doffed.

2.7 Product is handled and if required, labelled.

Outcome 3

Identify and fix operational and product faults.

Performance criteria

3.1 Yarn faults during processing are identified and corrective action is taken to rectify.

Range may include but is not limited to – yarn breaks, yarn appearance, package build, thick and thin, uneven twist, over twist.

3.2 Twisting machine malfunction is identified and corrective action is taken.

Outcome 4

Clean twisting machine and work area.

Performance criteria

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

Replacement information	This unit standard replaced unit standard 4186 and unit standard 4188.
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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	24 March 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 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.