

Title	Set up a twisting machine to twist yarn		
Level	3	Credits	8

Purpose	People credited with this unit standards are able to: describe twisting machine set-up; set up twisting machine for operation; operate twisting machine to optimise machine settings; maintain twisting machine; keep records and dispose of waste.
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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
 - a All activities and evidence must be in accordance with workplace procedures.
 - b Competence will be demonstrated on the type of machine installed in the candidate's workplace.
 - c Competence will be demonstrated on a range of products produced in the candidate's workplace.
- 5 Recommended skills and knowledge
Unit 32925, *Twist yarn on a twisting machine*, or demonstrate equivalent knowledge and skills.

Outcomes and performance criteria

Outcome 1

Describe twisting machine set-up.

Performance criteria

- 1.1 Machine variables that can be changed during set-up are described in terms of the way they affect processing and product quality.
- Range may include but is not limited to – twist, twist level, twist direction, yarn reserve, pre-take up and/or package density, tension, spindle speed, machine speed, knock-off devices, tension devices, traveller, pick or build, lappets or flyers.

Outcome 2

Set up twisting machine for operation.

Performance criteria

- 2.1 Pre-start check is completed.
- Range may include but is not limited to – ring lubrication, traveller wear, spindle drive, belt condition, spindle brakes and clutch, lappet or flyer.
- 2.2 Machine is set to produce yarn to specification.
- Range may include but is not limited to – twist level, twist direction, yarn reserve, pre-take up and/or package density, tension, spindle speed, knock-off devices, traveller, pick or build, lappets or flyer.
- 2.3 Control devices are set.

Outcome 3

Operate twisting machine to optimise machine settings.

Performance criteria

- 3.1 Safety guards and devices are checked.
- 3.2 Twisting machine is run and settings are adjusted to meet efficiency and quality standards.
- 3.3 Tests are carried out and results are analysed to confirm processing and product specification.
- Range may include but is not limited to – twist, yarn reserve with stroboscope, construction and/or yarn sequence, spindle speed with stroboscope, tension.

Outcome 4

Maintain twisting machine.

Performance criteria

4.1 Maintenance procedures are carried out.

Range may include but is not limited to – machine lubrication, spindle belts, gear box levels, drum rubbers, traverse guides, delivery rollers, lifter chains or tapes, travellers, ring oil system, knock-off motions, spindle speed with stroboscope.

Outcome 5

Keep records and dispose of waste.

Performance criteria

5.1 Records are maintained.

Range may include but is not limited to – machine batch settings, production records, maintenance records, batch recordings.

5.2 Waste is disposed of.

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.