

<b>Title</b>	<b>Operate a winding machine and wind yarn</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of an assembly winding machine; prepare and operate an assembly winding machine; identify and fix operational and product faults; and clean assembly winding machine and work area.
----------------	--

<b>Classification</b>	Textiles Manufacture > Core Yarn Processing
-----------------------	---

<b>Available grade</b>	Achieved
------------------------	----------

---

### 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  
*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, procedures to comply with legislative and local body requirements.  
*Winding machine* refers to a machine winding single or multiple yarns and can be semi-automatic or automatic.
- 3 Assessment information  
All activities and evidence must be in accordance with workplace procedures.

---

### Outcomes and performance criteria

#### Outcome 1

Describe a winding machine.

#### Performance criteria

- 1.1 The function and operation of winding machine sections are described.

**Range** may include but is not limited to – machine controls, creel or hank expander, tension devices, yarn clearers, winding head, take-up package, yarn detectors, length measurement, yarn splicing.

**Outcome 2**

Prepare and operate a winding machine.

**Performance criteria**

2.1 Personal protective equipment is used.

2.2 Safe work methods are demonstrated.

2.3 Winding machine is prepared for operation.

Range may include but is not limited to – yarn identified, creel or carousel or hank expander, thread up according to specifications, take-up package in place, machine settings, package size.

2.4 Winding machine is operated.

2.5 Yarn is wound.

Range may include but is not limited to – creel or carousel or hank expander maintained, full packages doffed, end breaks mended.

2.6 Yarn joins are made.

2.7 Wound yarn is inspected, handled and records are kept.

**Outcome 3**

Identify and fix operational and product faults.

**Performance criteria**

3.1 Yarn faults are identified, and corrective action is taken or reported.

Range may include but is not limited to – yarn breaks, thick and thin, missing ends, split yarns, yarn appearance, uneven tension, package build and density, contamination.

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

**Outcome 4**

Clean winding machine and work area.

**Performance criteria**

4.1 Winding machine and work area are kept clean during processing.

4.2 Winding machine is cleaned at end of a batch.

4.3 Waste fibre is collected and sorted according to type to prevent contamination.

<b>Planned review date</b>	31 December 2026
----------------------------	------------------

#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 March 2003	31 December 2019
Review	2	23 April 2008	31 December 2019
Review	3	19 May 2016	31 December 2025
Review	4	24 March 2022	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0030
--	------

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](mailto:qualifications@hangaarorau.nz) if you wish to suggest changes to the content of this unit standard.