Title | Set up a reeling machine to reel yarn
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Level | 3 | Credits | 4

**Purpose**
People credited with this unit standard are able to: demonstrate knowledge of reeling machine set-up; comply with company and statutory health, safety, and environment requirements; set up reeling machine for operation; operate reeling machine to optimise machine settings; and maintain reeling machine; and keep records.

**Classification**
Textiles Manufacture > Core Yarn Processing

**Available grade**
Achieved

**Entry information**

**Critical health and safety prerequisites**
Prerequisite: Unit 4192, *Reel yarn*, or demonstrate equivalent knowledge and skills.

**Explanatory notes**
1. Reeling and reeling machine are referred to as hanking and hanking machine in some workplaces.
2. Competence will be demonstrated on the type of machine installed in the candidate’s workplace.
3. Competence will be demonstrated on a range of products produced in the candidate’s workplace.
5. Workplace productivity and quality requirements must be met.
6. *Workplace procedures* refer to the verbal or documented procedures for performing work activities and include health and safety, operational, environmental, and quality management requirements. They may refer to manuals, manufacturer's specifications, codes of practice, or policy statements.

**Outcomes and evidence requirements**

**Outcome 1**
Demonstrate knowledge of reeling machine set-up.

**Evidence requirements**

1.1 Machine variables that can be changed during set-up are identified and described in terms of the way they affect processing and product quality.

   **Range**  swift diameter, swift speed, swift traverse, hank length, build.

1.2 Tests are described and results analysed to confirm processing and product specification.

   **Range**  hank weight, hank circumference, traverse, tie tension, number of ties, tie type.

**Outcome 2**

Comply with company and statutory health, safety, and environment requirements.

**Evidence requirements**

2.1 Company-supplied clothing, and hygiene and safety equipment and materials, are worn and used in accordance with workplace procedure and statutory requirements.

2.2 Work methods comply with workplace procedure and statutory requirements to minimise the risk of ill-health and injuries to the candidate and others.

2.3 Unsafe and unhealthy conditions are identified and reported in accordance with workplace procedures and statutory requirements.

2.4 Cleanliness of equipment, candidate, and work area complies with workplace procedures.

2.5 Waste disposal meets workplace procedures and environmental requirements.

**Outcome 3**

Set up reeling machine for operation.

**Evidence requirements**

3.1 Adjustments are made in accordance with workplace procedures.

3.2 Reeling machine is kept clean and maintained in operating condition.

   **Range**  lubrication, knock-off devices, safety cut-outs.

3.3 Machine settings produce yarn to specification.

   **Range**  swift diameter, swift speed, swift traverse, hank length, build.
3.4 Instrumentation and control devices are set in accordance with workplace procedures.

**Outcome 4**

Operate reeling machine to optimise machine settings.

**Evidence requirements**

4.1 Safety guards and devices are in place, checked, and operate in accordance with workplace procedures.

4.2 Reeling machine is run and settings are adjusted in accordance with workplace procedures.

4.3 Test samples are taken in accordance with workplace procedures.

**Outcome 5**

Maintain reeling machine.

**Evidence requirements**

5.1 Maintenance procedures are carried out in accordance with workplace procedures.

Range maintenance procedures may include but are not limited to – lubrication, swift drive, knock-off motions, yarn guides, yarn attachment points, hank unloading mechanism, safety cut-outs.

**Outcome 6**

Keep records.

**Evidence requirements**

6.1 Records are maintained in accordance with workplace procedures.

Range machine batch settings, production records, maintenance records, batch recordings.

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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

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## Consent and Moderation Requirements (CMR) reference


### Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.