Title: Spin yarn on a semi-worsted or worsted spinning machine

Level: 2  Credits: 9

Purpose: This unit standard is for people working in the semi-worsted or worsted yarn making industry. People credited with this unit standard are able to: describe the function and operation of a semi worsted or worsted spinning machine; operate the machine safely and efficiently to make product to specification; and maintain a clean machine and work area.

Classification: Textiles Manufacture > Top Making, Semi-Worsted and Worsted Processing

Available grade: Achieved

Explanatory notes

1. Competence will be demonstrated in semi-worsted or worsted spinning depending on the process installed in the workplace.


3. Workplace productivity and quality requirements will be met.

Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of the semi-worsted or worsted spinning machine.

Evidence requirements

1.1 Semi-worsted or worsted spinning machine parts are described in terms of function and operation.

   Range: machine controls, creel, drafting zone, cots, condenser, aprons, guides, lappets, spindle, balloon ring, ring, traveller, spindle brake, waste collection.

Outcome 2

Prepare and operate a semi-worsted or worsted spinning machine.

Evidence requirements
2.1 Spinning machine is prepared for operation according to workplace practice and work instructions.

Range sliver or roving identified, supply cans or bobbins placed in creel, machine threaded, uptake packages in place, piecened up, travellers changed, package build adjusted, machine in starting position.

2.2 Machine is operated according to plant safety procedures.

2.3 Test sample is produced according to workplace practice.

2.4 Yarn is processed according to work instruction and operating procedure.

Range supply creel maintained, full packages doffed, end breaks mended, roller laps cleared, break in and run out, production weighed and identified, test samples taken.

2.5 Records are kept according to workplace practice.

Outcome 3
Identify and fix operational and product faults.

Evidence requirements

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

Range thick and thin yarn, excessive end breaks, contamination, hairy yarn.

3.2 Spinning machine malfunction is identified and corrective action taken according to plant procedures.

Range apron wear, traveller wear, cot wear, spindle speed, spindle tape slippage or breaks, brake malfunction, lappet setting, rings.

Outcome 4
Clean spinning machine and work area.

Evidence requirements

4.1 Spinning machine and work area are kept clear of fibre and waste to prevent contamination.

Range waste collection system, cans, trolleys or baskets, bobbins, bins.

4.2 Spinning machine is cleaned at batch end according to workplace practice and in accordance with safety procedures.
This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

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Consent and Moderation Requirements (CMR) reference 0030


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.