

Apply the properties of fibres and yarns to the design of knitted goods

Level 5

Credits 7

Purpose This unit standard is for technical personnel who work in association with all types of industrial knitting machines.

People credited with this unit standard are able to describe: the characteristics and properties of spun yarns as applied to knitted fabrics and product end use; the characteristics and properties of filament yarns as applied to knitted fabrics and end use products; and the characteristics and properties of combinations of fibres, blends of fibres, and/or yarn-types and blends of yarn-types, as applied to knitted fabrics and end use products.

Subfield Industrial Machine Knitting

Domain Knitting Industry Technology

Status Registered

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Entry information Open.

Accreditation Evaluation of documentation and visit by NZQA and industry.

Standard setting body (SSB) Competenz

Accreditation and Moderation Action Plan (AMAP) reference 0030

This AMAP can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Special notes

- 1 This unit standard relates to the combined properties of textile fibres and the yarns produced from them, and to their application across all sectors of the knitting industry.

- 2 Technical aspects that are required to be covered in demonstrating competence in this unit standard include:
- a the range of spun yarns, and the properties of the fibres from which they are spun;
 - b monofilament and multifilament flat and textured yarns, and the properties of the fibres from which they are spun;
 - c the range of properties required in knitted fabrics and goods in relation to end use
Properties may include any one or combinations of the following:
strength;
fineness;
smoothness;
softness;
warmth;
bulk;
coolness;
roughness;
elasticity;
extensibility;
non-extensibility;
stiffness;
lustre;
moisture absorbency;
wickability;
thermoplasticity;
non-thermoplasticity;
twist, and torque in the yarns.

Elements and performance criteria

Element 1

Describe the characteristics and properties of spun yarns as applied to knitted fabrics and goods for product end use.

Range company products.

Performance criteria

- 1.1 Goods produced by knitting processes are specified in terms of their end use.
- 1.2 Specific fibre-type and spun-yarn combinations are selected and justified in terms of their properties relevant to the product's end use.

Element 2

Describe the characteristics and properties of filament yarns as applied to knitted fabrics and end use products.

Range company products.

Performance criteria

- 2.1 Goods produced by knitting processes are specified in terms of their end use.
- 2.2 Specific fibre-type and filament-yarn combinations are selected and justified in terms of their properties relevant to the product's end use.

Element 3

Describe the characteristics and properties of combinations of fibres, blends of fibres, and/or yarn-types and blends of yarn-types as applied to knitted fabrics and end use products.

Range company products.

Performance criteria

- 3.1 Goods producible by knitting processes are specified in terms of their end use.
- 3.2 Specific fibre, fibre-blend, yarn-types or blends of yarn-types are selected and justified in terms of their combined properties relevant to the products' end use.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP 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.

Comments on this unit standard

Please contact Competenz info@competenz.org.nz if you wish to suggest changes to the content of this unit standard.