

## Compile design and quality specifications for clothing products

**Level** 4

**Credits** 6

**Purpose** People credited with this unit standard are able to: explain the purpose of preparing accurate and detailed product specifications; calculate the stitch density requirements; identify the critical areas of measurement; classify product components; specify the types of machine and the methods of construction; estimate the approximate labour content of each operation in standard minutes; and design and write product specifications for company products.

**Subfield** Clothing Manufacture

**Domain** Apparel Cutting and Sewing

**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>.

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### Special notes

#### Definitions

*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.

*Product, garment or style specifications* are all terms for the same document. The terminology varies between workplaces but they all refer to the documentation that accompanies each manufacturing order. This documentation sets out the material to be used for the product, the size range of the order, the product assembly sequence, product finishing procedures, and the component specifications.

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## Elements and performance criteria

### Element 1

Explain the purpose of preparing accurate and detailed product specifications.

#### Performance criteria

- 1.1 The purpose is explained in terms of the consequences experienced if there are errors in the product specifications.
- 1.2 The relationship between the product specifications, the Bills of Labour and the Bills of Materials are explained.

### Element 2

Identify the stitch density requirements of fabrics.

Range three company products.

#### Performance criteria

- 2.1 Stitch density identified matches the type of fabric used and the intended end use of the product.  
  
Range knit, woven, non-woven.
- 2.2 Sewing machine selected can produce the required stitch density on the specified fabrics.
- 2.3 The range of stitch densities for two different sewing machines is calculated.

### Element 3

Identify the critical areas of measurement.

Range three company products.

#### Performance criteria

- 3.1 Stress points are identified on the products.
- 3.2 Stretch and relaxed measurements are identified and calculated on gathered or elasticated seams and stretch fabrics.
- 3.3 Measurement tolerances are set and stated for critical points according to workplace procedures.

#### **Element 4**

Classify product components.

Range three company products.

#### **Performance criteria**

4.1 All major components are listed and materials identified and classified.

Range trim components, optional or size related components, reinforcing or interlining materials, coloured or contrast components.

4.2 Known behavioural or handling properties likely to cause manufacturing problems are noted according to workplace procedures.

#### **Element 5**

Specify the types of machine and the methods of construction.

Range three company products.

#### **Performance criteria**

5.1 All machines used are identified by type and suitability for construction purpose.

5.2 Methods of construction are explained according to company product specification requirements.

5.3 Manufacturing sequences are identified to meet product requirements.

#### **Element 6**

Estimate the approximate labour content of each operation in standard minutes.

#### **Performance criteria**

6.1 Estimated times are within 15% of standard time.

6.2 Production batch or bundle quantity are stated and recorded according to workplace procedures.

Range time allowance or other equivalent adjustment.

## **Element 7**

Design and write product specifications for company products.

Range three company products.

### **Performance criteria**

7.1 Specifications meet product requirements.

7.2 Layout is clear, legible, and meets workplace requirements.

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### **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.

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### **Comments on this unit standard**

Please contact [Competenz info@competenz.org.nz](mailto:Competenz info@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.