

<b>Title</b>	<b>Investigate and solve complex problems in apparel or textile manufacturing</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of a problem solving technique applicable to apparel or textile manufacturing; investigate complex problems in apparel or textile manufacturing; and make and evaluate recommendations to solve complex problems in apparel or textile manufacturing.
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<b>Classification</b>	Textiles Manufacture > Core Yarn Processing
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<b>Available grade</b>	Achieved
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### 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
 

*Complex problems* – in manufacturing are likely to be unfamiliar, occur rarely, or have no immediately obvious cause or solution. Finding a solution will require the application of standard and non-standard procedures; the interpretation of a wide range of inputs, opinions and data; and an in-depth knowledge of the process or product being investigated.

*Workplace procedures* – 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, and procedures to comply with legislative and local body requirements.
- 3 Assessment information
 

All evidence must be in accordance with workplace procedures.

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### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of a problem solving technique applicable to apparel or textile manufacturing.

**Performance criteria**

- 1.1 A problem solving technique suited to apparel or textile manufacturing is described, and the application of the technique is explained.
- 1.2 Methods of applying the problem solving technique to specified complex problems are proposed.

Range knowledge of technique to be demonstrated for a minimum of four different complex problems encountered during manufacturing in the workplace.

**Outcome 2**

Investigate complex problems in apparel or textile manufacturing.

Range investigation includes at least two specific problems encountered in the workplace.

**Performance criteria**

- 2.1 Investigation defines the problem, and identifies potential causative factors.

Range identify problem, analyse problem, generate ideas and solutions, select and plan possible solution.

- 2.2 Documentation describes the investigation process, and supports the identification of causative factors.

**Outcome 3**

Make and evaluate recommendations to solve complex problems in apparel or textile manufacturing.

Range recommendations are proposed and evaluated for two specific problems encountered in the workplace.

**Performance criteria**

- 3.1 Recommendations are appropriate and relevant to the identified problem.
- 3.2 Recommendations are trialled and assessed to determine effectiveness in solving the problem.
- 3.3 Final solution is identified and documented in accordance with workplace procedures.

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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**

Process	Version	Date	Last Date for Assessment
Registration	1	26 March 2007	31 December 2019
Rollover	2	16 April 2010	31 December 2019
Review	3	19 May 2016	31 December 2023
Review	4	24 March 2022	31 December 2023

**Consent and Moderation Requirements (CMR) reference**

0030

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