

Title	Apply chemicals to a textile sample using laboratory scale equipment		
Level	4	Credits	20

Purpose	<p>This unit standard is for people working in the dyeing and finishing industry.</p> <p>People credited with this unit standard are able to: prepare to apply chemicals to a textile sample; calculate and prepare chemicals; and carry out application processes.</p>
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Classification	Textiles Manufacture > Textile Dyeing and Finishing
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Available grade	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

Product specifications – the document which accompanies each manufacturing order. This specifies all of the parameters for production of the yarn batch. This may include the fibre specification, the shade, dye bath parameters, machinery to be used and finishing procedures.

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 Range

Chemicals must include dyestuffs.
- 4 Assessment information

All evidence must be in accordance with workplace procedures.

Outcomes and performance criteria

Outcome 1

Prepare to apply chemicals to a textile sample.

Performance criteria

1.1 Prepared sample matches product specifications.

Range fibre type, sample construction, sample weight.

1.2 Resources to carry out chemical application are assembled.

Range chemicals, dye recipe, work instructions, safety equipment.

1.3 Work area is prepared.

Range area is clean, clear of unwanted equipment, clear of unwanted chemicals.

1.4 Equipment is assembled.

1.5 Workplace safety procedures that apply to the application process are described.

Range chemical spillage, chemical contact, hazardous incident reporting.

Outcome 2

Calculate and prepare chemicals.

Performance criteria

2.1 Chemical quantities are calculated and measured in accordance with the recipe.

2.2 Solid chemicals are dissolved.

Outcome 3

Carry out application process.

Performance criteria

3.1 Chemicals are added in sequence in accordance with the recipe and product specifications.

3.2 Process conditions are monitored and maintained.

Range time, temperature, chemical level, liquor circulation or agitation.

3.3 End-of-process procedures are carried out in accordance with product specifications and workplace procedures.

Range sample rinsed and dried, liquor disposed of, equipment cleaned.

3.4 Documentation is completed.

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	25 October 1995	31 December 2019
Revision	2	8 August 1997	31 December 2019
Revision	3	18 July 2000	31 December 2019
Revision	4	10 October 2001	31 December 2019
Revision	5	15 January 2004	31 December 2019
Rollover	6	25 July 2007	31 December 2019
Review	7	17 April 2009	31 December 2019
Review	8	19 May 2016	31 December 2023
Review	9	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>.