

Title	Correct the shade of a textile sample to match a given shade		
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 dye a textile sample to shade; assess shade and establish corrective action; carry out corrective action to produce sample to shade; and complete documentation.</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

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.

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.
- 3 Candidates must not have colour vision deficiencies.
- 4 Assessment information

All evidence must be in accordance with workplace procedures.
- 5 Recommended skills and knowledge:

Unit 5382, Apply chemicals to a textile sample using laboratory scale equipment. Candidates should pass an Ishihara Colour Test or equivalent before commencing this unit standard.

Outcomes and performance criteria

Outcome 1

Prepare to dye a textile sample to shade.

Performance criteria

- 1.1 Resources are assembled to carry out assessment and adjustment.
- Range viewing lights, chemicals, equipment, dye recipe, work instructions, safety equipment.
- 1.2 Work area is prepared.
- Range area is clean, clear of unwanted equipment and chemicals, viewing lights are operational.
- 1.3 Equipment is assembled.
- 1.4 The application of safety procedures that apply to the dyeing process are described.
- Range chemical spillage, chemical contact, hazardous incident reporting.

Outcome 2

Assess shade and establish corrective action.

Performance criteria

- 2.1 Dyed sample is compared with standard, and shade difference assessed visually.
- 2.2 Dye and chemical additions are calculated in relation to the size of load.
- 2.3 Recipe and product specifications are prepared for additions.

Outcome 3

Carry out corrective action to produce sample to shade.

Performance criteria

- 3.1 Dye and chemical additions are added in sequence in accordance with the 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.

Outcome 4

Complete documentation.

Performance criteria

- 4.1 Documentation is completed to include addition calculations, and recipe modifications.

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 and Revision	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>.