Title	**Demonstrate knowledge of textile colour**		
Level	**5**	**Credits**	**20**

Purpose	This advanced unit standard is for specialists in the dyeing and finishing industry. People credited with this unit standard are able to demonstrate knowledge of: colour perception; colour production; and colour identification and expression.

Classification	Textiles Manufacture > Textile Dyeing and Finishing

Available grade	Achieved

Guidance Information

None.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of colour perception.

Performance criteria

1.1 Light perception is described in terms of human eye function.

Range retina, rods, cones.

1.2 Light is described in terms of light source and the electromagnetic wave spectrum.

Range light source – white light, tungsten, fluorescent;
spectrum – infrared, visible, ultraviolet.

Outcome 2

Demonstrate knowledge of colour production.

Performance criteria

2.1 Production of colour is described in terms of additive light and subtractive pigment theories.

Range additive mixing, subtractive mixing, primary colours, secondary colours, tertiary colours.

2.2 The coloured appearance of textiles is explained.

Range absorption, reflection, trichromatic combination.

Outcome 3

Demonstrate knowledge of colour identification and expression.

Performance criteria

3.1 Colour description terms are explained using the colour wheel.

Range hue, value, chroma.

3.2 Colour perception is described in terms of spectral curves and their interaction.

Range illuminant spectral curve, spectral reflectance curve, recipient spectral curve.

3.3 Tristimulus values on visual light perception is described.

3.4 The l, a, b colour notation system is described in terms of function, operation, and use.

Range expression of colour, communication of colour difference.

3.5 The colour triangle is described in terms of function and method of preparation.

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Status information and last date for assessment for superseded versions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.