

<b>Title</b>	<b>Demonstrate knowledge of the skin and related biology relevant to beauty therapy services</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of: cellular structure; the four major types of tissues of the body; the structure and function of the skin; the structure and function of epidermal appendages; and the ageing and healing characteristics of skin and nails and their impact on planning beauty therapy services.
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<b>Classification</b>	Beauty Services > Beauty Therapy
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<b>Available grade</b>	Achieved
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### Explanatory notes

#### 1 Assessment information

Evidence generated during assessment against this unit standard must be consistent with industry practice and knowledge. Such knowledge is available in reference texts, models, and other information-bearing media. No one textbook or other source of information is envisaged, as new approaches to the study of skin biology and beauty therapy are published regularly.

Evidence generated during assessment against this unit standard must also be consistent with The New Zealand Association of Registered Beauty Therapists, *Code of Ethics for Members of The New Zealand Association of Registered Beauty Therapists Inc.* (9th ed, April 2009) (Auckland, NZ), and The New Zealand Association of Registered Beauty Therapists, *Health and Hygiene Guidelines* (1st ed, 2016) (Auckland, NZ), both available from <http://www.beautynz.org.nz>.

#### 2 The focus of this unit standard is the structure and function of skin that is healthy and functioning properly. Diseases and disorders are included only where appropriate to the professional competence of a beauty practitioner.

### Outcomes and evidence requirements

#### Outcome 1

Demonstrate knowledge of cellular structure.

#### Evidence requirements

##### 1.1 The location and structure of the major cellular components are explained.

Range organelles, plasma membranes, cytoplasm.

1.2 The functions of the major cellular components are explained.

Range components – organelles, plasma membranes, cytoplasm.

1.3 The reproduction of cells is explained.

Range mitosis, meiosis.

## **Outcome 2**

Demonstrate knowledge of the four major types of tissues of the body.

Range epithelial, connective, muscle, nervous.

### **Evidence requirements**

2.1 The four major types of tissues of the body are identified and described in terms of their general features.

## **Outcome 3**

Demonstrate knowledge of the structure and function of the skin.

### **Evidence requirements**

3.1 The structure of the epidermis is explained.

Range epidermal ridges, layers of the epidermis, melanocytes, keratinocytes.

3.2 The roles of desquamation and keratinisation in the maintenance of a healthy epidermis are described.

Range cell division, cell migration

3.3 The microscopic structure of the dermis and hypodermis are explained.

Range dermis includes – papillary region, dermal papillae, areolar connective tissue, arrector pili, Langerhan cells;  
reticular region – collagen and elastic fibres, adipose tissue, hair follicles, subaceous glands, sweat glands, capillaries;  
hypodermis includes – subcutaneous tissue; nerve endings.

3.4 The general function of the skin is described.

Range sensation, protection, heat regulation, excretion, absorption, vitamin D synthesis, blood reservoir, immunity, secretion.

3.5 Variation in skin colour is described in terms of the action of pigments.

Range melanin, carotene, haemoglobin.

#### **Outcome 4**

Demonstrate knowledge of the structure and function of epidermal appendages.

#### **Evidence requirements**

4.1 The structure of hair is described in relation to the epidermis, sebaceous glands, and arrector pili muscle.

Range cortex, medulla and cuticle, follicle layers.

4.2 The function of hair on different parts of the body is described.

Range eye brows, eye lashes, bikini, underarm, body.

4.3 The components of the nail are identified, and their structure and function are explained.

Range matrix, lanula, free edge, cuticle, hyponychium, perionychium, eponychium, nail plate, nail bed, nail grove.

4.4 Nail plate growth is described in terms of influencing factors.

Range includes but is not limited to – health, trauma, medication, diet, infection.

4.5 Keratinisation of the nail is described in terms of its effect.

4.6 The glands associated with the skin are identified, and their structure, location, function, and secretions are explained.

Range sebaceous glands; sudoriferous glands (eccrine, apocrine).

#### **Outcome 5**

Demonstrate knowledge of the ageing and healing characteristics of skin and nails and their impact on planning beauty therapy services.

#### **Evidence requirements**

5.1 Changes that occur to the skin and nail during the ageing process are described.

Range skin tone, collagen loss, elastin loss, pigmentation (lentigo), acne rosacea, skin thinning, thickening of the nail, nail corrugations.

5.2 Changes that occur to the skin during the healing process are described.

Range (mast cell) histamine, (fibroblast) collagen, elastin, (melanocyte) melanin.

5.3 Common skin conditions relevant to healing skin are described and the impact these have in the planning of beauty therapy services is explained.

Range skin conditions relevant to healing skin – keloid scar, pitted scar, hyper pigmented scar, hypo pigmented scar;  
beauty therapy services – facials, makeup, waxing, manicure and pedicure.

<b>Replacement information</b>	This unit standard replaced unit standard 513 and unit standard 522.
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<b>Planned review date</b>	31 December 2021
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	15 September 2016	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0035
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

#### Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR 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.

#### Comments on this unit standard

Please contact the NZ Hair and Beauty Industry Training Organisation Inc [enquiries@hito.org.nz](mailto:enquiries@hito.org.nz) if you wish to suggest changes to the content of this unit standard.