

Title	Demonstrate knowledge of skin biology for advanced beauty therapy services		
Level	5	Credits	5

Purpose	People credited with this unit standard are able to demonstrate: advanced knowledge of the anatomy and physiology of the skin; knowledge of the skin ageing and healing characteristics relevant to advanced beauty therapy services; knowledge of the inheritance (or genetic) physical traits and conditions of the skin that affect advanced beauty therapy services; knowledge of the major skin chemicals and the role of the endocrine glands and hormones in skin conditions relevant to advanced beauty therapy services; and knowledge of percutaneous absorption and the relevance to advanced beauty therapy treatments.
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Classification	Beauty Services > Beauty Therapy
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Available grade	Achieved
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Guidance Information

- 1 **Definition**
Advanced facial therapy refers to interpreting a consultation to develop a service plan and making adjustments required by variations in the client's skin type and condition. The service will focus on results rather than pampering, applying a range of specific facial products and electrical equipment.
- 2 Evidence generated during assessment against this unit standard must be consistent with industry practice and the currently accepted body of knowledge relating to conditions and beauty therapy. 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 beauty therapy are published regularly.
- 3 Evidence generated during assessment against this unit standard must be consistent with the current edition of The New Zealand Association of Registered Beauty Therapists, *Code of Ethics for Members of The New Zealand Association of Registered Beauty Therapists Inc.* (Auckland, NZ), and The New Zealand Association of Registered Beauty Therapists, *Health and Hygiene Guidelines* (Auckland, NZ), both available from <http://www.beautynz.org.nz>.
- 4 **Range**
 Advanced beauty therapy services include – electrical epilation services, advanced facial therapy services, body therapy services.

Outcomes and performance criteria

Outcome 1

Demonstrate advanced knowledge of the anatomy and physiology of the skin.

Performance criteria

- 1.1 Describe the lifecycle of a keratinocyte within the epidermis.
Range desmosome, lamellar bodies, bilayers.
- 1.2 Explain the chemical process melanogenesis and the distribution of melanin into the keratinocyte.
- 1.3 Describe physiology of the basement membrane in relation to the epidermis and dermis.
Range epidermal ridges, osmosis, diffusion, interstitial fluid.
- 1.4 Identify and explain the role of the specialised cells within the dermis.
Range fibroblast, mast cell, histiocytes, leucocytes.

Outcome 2

Demonstrate knowledge of the skin ageing and healing characteristics relevant to advanced beauty therapy services.

Performance criteria

- 2.1 Describe changes that occur to the skin during the ageing process.
Range skin tone, collagen loss, elastin loss, hyperpigmentation, hypopigmentation, glycosaminoglycan (GAGs) loss, muscle tone loss, Glycation.
- 2.2 Describe changes that occur to the skin during the healing process.
Range (mast cell) histamine, (fibroblast) collagen, elastin, (melanocyte) melanin, Adenosine Tri-Phosphate (ATP) production, protein synthesis, cellular transport, neocollagenesis.

Outcome 3

Demonstrate knowledge of the inheritance (or genetic) physical traits and conditions of the skin that affect advanced beauty therapy services.

Performance criteria

- 3.1 Explain the Fitzpatrick skin type classification system is described and its relevance to advanced beauty therapy services.

Range ethnicity, eye colour, skin colour, hair colour, recessive gene sun exposure reaction time, tanning ability.

3.2 Identify and describe allergies and explain their effects on advanced beauty therapy services.

Range topical, ingested.

Outcome 4

Demonstrate knowledge of the major skin chemicals and the role of the endocrine glands and hormones in skin conditions relevant to advanced beauty therapy services.

Performance criteria

4.1 Identify the key hormones produced by the endocrine glands and the effect each of these have on the skin.

Range includes but is not limited to – pituitary, pineal, thyroid, parathyroid, islets of Langerhans, adrenal, ovary, testes.

4.2 Explain the function the identified hormones may have in the formation of skin conditions.

Range acne (vulgaris and rosacea), eczema, pigmentation (hyper and hypo), premature ageing.

Outcome 5

Demonstrate knowledge of percutaneous absorption and the relevance to advanced beauty therapy treatments.

Performance criteria

5.1 Explain the way in which the skin works as an external barrier.

Range moisture loss, foreign invasion.

5.2 Describe the skin's natural moisturising factor.

5.3 Explain penetration via cutaneous absorption and identify the major influences of the rate of absorption.

5.4 Explain product absorption pathways.

Range via the follicle, between the cells, through the cells (transcellular).

5.5 Explain the use of vehicles and carriers in percutaneous penetration.

Range chemical, electricity, micro/nano particles, liposomes, penetration enhancers.

5.6 Describe the way in which cosmetic chemistry measures the rate of penetration.

Range bioavailability, bioactivity.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	31 May 2018	N/A

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

Comments on this unit standard

Please contact the NZ Hairdressing Industry Training Organisation Inc
support@hito.org.nz if you wish to suggest changes to the content of this unit standard.