

Title	Demonstrate knowledge of hair, hair growth, and the application of electrical currents for electrical epilation services		
Level	5	Credits	5

Purpose	People credited with this unit standard are able to demonstrate knowledge of: the anatomy of hair and hair growth relevant to electrical epilation services; hair growth variations relevant to electrical epilation services; electrical and chemical processes in electrical epilation; the effect of electrical currents on the pilo-sebaceous unit; and the effect of needle selection and insertion on the pilo-sebaceous unit during electrical epilation.
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Classification	Beauty Services > Beauty Therapy
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Available grade	Achieved
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Guidance Information

- 1 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 beauty therapy are published regularly.
- 2 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>.
- 3 The focus of this unit standard is the structure of human body systems that are healthy and functioning properly. Diseases and disorders are included only where appropriate to the professional competence of a beauty practitioner.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the anatomy of hair and hair growth relevant to electrical epilation services.

Performance criteria

1.1 Describe types of hair anatomy.

Range lanugo, vellus, terminal.

1.2 Describe the anatomy and physiology of the pilo-sebaceous unit.

Range inner root sheath, outer root sheath, connective tissue sheath, vitreous membrane, medulla, cortex, cuticle, hair nerve plexus, follicle bulge, hair germ cells.

1.3 Explain the phases of the hair growth cycle and their relevance to electrical epilation services.

Range phases – anagen, catagen, telogen.

1.4 Explain the relationship between hair removal by electrical epilation and the regrowth of hair.

Range stage of hair growth at time of removal, hair regrowth cycle, rebooking timeframe, hair management between services.

1.5 Explain the impact of hair growth management pre- and post-electrical epilation services.

Range waxing, tweezing, bleaching, shaving, laser, pulsed light.

1.6 Describe products used in electrical epilation services in terms of the active ingredients and their action on the pilo-sebaceous unit.

Range pre- and post-care products, hair growth retardant.

1.7 Explain home care advice following electrical epilation.

Range immediately after, following 48 hours.

Outcome 2

Demonstrate knowledge of hair growth variations relevant to electrical epilation services.

Range ingrown hair, embedded hair, pili multi-gemini follicles, corkscrew hairs, tombstone hairs, distorted hair follicles.

Performance criteria

2.1 Explain the features and characteristics of hair growth structures and describe how each is identified.

2.2 Explain the relevance of these hair growth patterns to an electrical epilation service.

Outcome 3

Demonstrate knowledge of electrical and chemical processes in electrical epilation.

Range galvanic (including cataphoresis), high frequency, blend currents.

Performance criteria

- 3.1 Explain the influences of the electrical components that affect how a galvanic and high frequency current is produced.
- 3.2 Describe the atoms, elements, molecules, compound, ions, and electrodes involved in electrical epilation services.
- 3.3 Explain the chemical and physical effects of electrodes involved in electrical epilation services.
- 3.4 Demonstrate and explain the safety precautions involved in electrical epilation procedures.

Outcome 4

Demonstrate knowledge of the effects of electrical currents on the pilo-sebaceous unit.

Range galvanic (including cataphoresis), high frequency, blended.

Performance criteria

- 4.1 Explain current selection.

Range skin type, follicle size, hair type, pain threshold, client consultation outcome.
- 4.2 Explain current formulae options.

Range working point, units of lye, blend leading with galvanic, blend leading with high frequency, blend with after count of galvanic.
- 4.3 Explain the effects on the hair follicle and surrounding skin when current is applied.
- 4.4 Explain variations of skin reaction when applying electrical epilation.

Range welting, blanching, erythema, blistering, scabbing, cauterisation, coagulation.
- 4.5 Explain the purpose of a managing a patch test for monitoring progress.

Outcome 5

Demonstrate knowledge of the effect of needle selection and insertion on the pilo-sebaceous unit during electrical epilation.

Performance criteria

5.1 Describe needle types and explain their features and benefits.

Range tapered, straight, one piece, two piece, shank sizes, insulated, gold, stainless steel.

5.2 Explain needle sizes and their reason for selection.

Range sizes – depth gauge, stage of hair growth, hair diameter;
reasons – treatment area, skin type, current selection, client consultation outcome.

5.3 Explain needle probing techniques in relation to the point of tissue destruction within the follicle.

Range correct technique – needle insertion, current application, tissue destruction;
incorrect technique – too deep, too shallow, miss-probe;
positioning – client, therapist;
visual aids – lighting, optic aid.

Replacement information	This unit standard replaced unit standard 19597.
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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.