



Australian Government

SHBBSKT008 Design light emitting diode treatment programs

Release: 1

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Modification History

No equivalent unit.

Application

This unit describes the performance outcomes, skills and knowledge required to design light emitting diode (LED) treatment programs to improve the appearance of skin at an epidermal level. It requires the ability to design a staged program of multiple light-based treatments that will achieve optimum outcomes for the client.

This unit applies to skin therapists who work in beauty salons or skin clinics where skin therapy is provided.

The unit reflects the safety guidelines, for a range of LED applications, expressed in the following Australian and New Zealand Standards, current at the time of publication:

- AS/NZS 1336:2014 Eye and face protection – Guidelines
- AS/NZS IEC 62471:2011 Photobiological safety of lamps and lamp systems.

The skills in this unit must be applied in accordance with Commonwealth and State or Territory legislation, Australian standards and industry codes of practice.

No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.

Pre-requisite Unit

Unit Code	Unit Title
SHBBSKT003	Identify and control safety risks for light-based skin treatments

Competency Field

Skin Therapy

Unit Sector

Beauty

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
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Elements describe the essential outcomes

1. Confirm skin treatment program with client.

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1. Discuss proposed treatment with client and review pre-treatment documentation.
- 1.2. Analyse indications for treatment, contraindications and client feedback and modify treatment plan.
- 1.3. Advise client of possible physical effects of LED, special precautions to be observed, pre- and post-treatment and homecare required.
- 1.4. Explain contraindications which prevent treatment and recommend suitable alternative treatments.
- 1.5. Refer client to an appropriate professional where required.
- 1.6. Identify the treatment implications for combining LED skin treatment technologies with other skin services.
- 1.7. Identify and discuss options or limitations for future treatments according to client characteristics, expectations and contraindications.
- 1.8. Obtain medical approval to proceed if client has medically-related contraindications or precautions.
- 1.9. Obtain signed informed consent.

2. Design a treatment program and discuss with client.

- 2.1. Determine appropriate treatment program according to client assessment and within safe practice protocols.
- 2.2. Comply with health and hygiene regulations and requirements.
- 2.3. Discuss with client the proposed treatment plan, risks, costs, likely duration, frequency of treatment and likely recovery time.
- 2.4. Confirm client compliance with special precautions and written pre- and post-treatment home care responsibilities.
- 2.5. Discuss management of selected treatment in relation to other treatments or lifestyle factors.
- 2.6. Photograph treatment area ensuing images are clear and comparable.
- 2.7. Code and file images to enable comparisons and evaluation of outcomes.
- 2.8. Complete and store treatment documentation according to organisational processes.

Foundation Skills

Foundation skills essential to performance in this unit, but not explicit in the performance criteria are listed here, along with a brief context statement.

SKILLS	DESCRIPTION
Reading skills to:	• source, interpret and critically analyse: • scientific or technical documents related to LED technology and its effects on skin • skin treatment publications • manufacturer instructions and promotions • trade publications • organisational procedures.
Oral communication skills to:	• sensitively and supportively discuss client needs and negotiate with clients • use medical terminology appropriately in consultations with clients, colleagues and health care professionals.
Learning skills to:	• evaluate own knowledge and skill in relation to emerging skin treatments and determine learning needs.
Problem-solving skills to:	• identify treatment limitations for specific clients, and select and recommend alternative solutions.
Initiative and enterprise skills to:	• promote treatments to existing and new clients.
Planning and organising skills to:	• sequence treatments into an effective skin therapy plan • identify appointment times and negotiate with colleagues for access to equipment and rooms.
Self-management skills to:	• manage length of consultation • recognise scope of practice issues and refer clients to colleagues or health care professional as appropriate.

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=255d312b-db07-48f2-b6d6-1b0b06c42898>

Assessment Requirements for SHBBSKT008 Design light emitting diode treatment programs

Modification History

No equivalent unit.

Performance Evidence

Evidence of the ability to complete tasks outlined in elements and performance criteria of this unit in the context of job role, and:

- consult with at least three different clients, each with different Fitzpatrick skin types and treatment needs
- for each of the above clients:
 - design and document a LED treatment program
 - record information obtained through all client consultation and observation
- during all consultations, consistently follow organisational policies and procedures and relevant state or territory laws, codes and guidelines related to the use of LED for cosmetic treatments.

Knowledge Evidence

Demonstrated knowledge required to complete the tasks outlined in elements and performance criteria of this unit:

- federal, state or territory and local Acts, regulations and standards relevant to LED treatments
- organisational policies and procedures in regard to LED technologies
- health and hygiene requirements in relation to light emitting diode treatment
- practitioner's legal and insurance liabilities and responsibilities for LED treatment:
 - role and importance of indemnity insurance
 - potential risks, liabilities and consequences of non-coverage
- characteristics of the electromagnetic spectrum and their applications in skin treatments
- indications for treatment for LED:
 - sun damaged skin
 - mild to moderate acne
 - erythema from light or laser therapies and sunburn
 - stimulation of collagen production
- risks, effects, benefits and scope of practice for LED devices and combined modalities for skin treatments
- manufacturer instructions in regard to LED technologies
- scope of practice for LED technologies in body and face treatments
- contraindications and their relationship to LED skin treatments:

- epilepsy
- albinism
- pre-treatment sun exposure
- artificially tanned skin
- pregnancy
- herbal remedies
- active herpes simplex
- active impetigo
- active eczema
- active acne
- photo-sensitive:
 - (1) medication
 - (2) conditions
- hypertrophic and keloid scars
- artificial pigment in the treatment area
- psoriasis in the treatment area
- certain circulatory conditions
- pregnancy
- connective tissue disorders including scleroderma
- prior surgery in treatment area
- birthmarks, moles and pigmented lesions
- open wounds or abraded skin
- moles or tattoos to be covered
- cryotherapy
- history of cancer in treatment area:
 - cancerous or precancerous lesions
- for the above listed contraindications:
 - appearance and identification
 - required action and treatment precautions
 - instances where treatment should not occur
 - instances where recommendation to seek advice of other professionals should be provided
- medical contraindications, their relationship to LED treatments, and required action and treatment precautions:
 - conditions already being treated by a general practitioner, dermatologist or skin therapist
 - medical oedema
 - recent surgery
 - diabetes
 - asthma

- epilepsy
- skin cancers
- appearance of complications and adverse effects and their causes:
 - pigmentation changes
 - blistering
 - scarring and textural changes
- physics of light:
 - energy forms
 - electromagnetic spectrum
 - visible and non-visible light
 - wavelengths
 - characteristics of a wave
 - properties of light emitting diodes (LED)
 - the effect of light energy on skin:
 - absorption
 - reflection
 - transmission
 - scatter
- effect and benefits of LED on human tissue:
 - photobiochemical tissue responses:
 - interaction with cytochromes
 - effect on mitochondria
 - effect on collagenase
 - effect on collagen, elastin
 - wavelength and effect and benefit for skin including:
 - (1) 415nm +/- 10% blue for acne treatments
 - (2) 640nm +/- 10% red for increasing circulation, collagen and elastin
 - (3) 590nm +/- 10% yellow for decreasing swelling and inflammation
 - (4) 830 +/- Infra red for rejuvenation
- operational characteristics of LED devices including:
 - selection of wavelength
 - treatment parameters
 - operating interface
 - treatment parameters
 - other compatible treatments to optimise results
 - precautions when combining with other treatments:
 - microdermabrasion
 - chemical peels
 - vacuum
 - microneedling

- treatment suitability
- personal protective equipment for operator and client
- safe work practices including equipment checks, preventive maintenance and operator responsibilities.

Assessment Conditions

Skills must be demonstrated in a simulated LED clinical workplace environment set up for the purposes of assessment.

Assessment must ensure access to:

- relevant documentation including:
 - AS/NZS IEC 62471:2011 Photobiological safety of lamps and lamp systems
 - Product manufacturer instructions and safety data sheets
 - organisational policies and procedures relevant to use of LED technology for use in skin therapy.

Assessment must ensure use of:

- LED devices which are registered for purpose on the Australian Register of Therapeutic Goods
- individual client workstations consisting of:
 - adjustable treatment table with safe working access to both sides and ends
 - individual electricity supply
 - magnifying lamp
 - operator chair
 - trolley for products, bowls and equipment
- electromagnetic spectrum charts or models
- real people with different Fitzpatrick skin types seeking skin treatments on different areas of the face and body
- activities that reflect industry practice and allow the individual to work with commercial timing and productivity to complete client consultations within designated timeframes.

Assessment must be directly observed, in person, for the total duration of each LED client consultation and patch test, by assessors who meet the assessor requirements outlined below.

Assessors must satisfy the Standards for Registered Training Organisations' requirements for assessors and:

- have worked for at least three years where they have applied the skills and knowledge of this unit of competency.

Links

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