



Australian Government

Assessment Requirements for SHBBSKT008 Design light emitting diode treatment programs

Release: 1

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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

Companion Volume implementation guides are found in VETNet -

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