



Australian Government

SHBBSSC003 Research and apply information on skin science in a skin therapy context

Release: 1

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Modification History

No equivalent unit.

Application

This unit describes the performance outcomes, skills and knowledge required to research and apply knowledge of skin anatomy and physiology to skin therapy. It requires the ability to recognise and classify anatomical changes in ageing and acne skin, select in-clinic treatment options and refer client to other services.

It requires ability to use credible sources to research information on skin anatomy and physiology and apply this to skin therapy and treatments in order to determine type of treatment, identify adverse effects and contraindications, and select appropriate post-treatment service and advice.

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

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

Nil

Competency Field

Skin Science

Unit Sector

Beauty

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes

PERFORMANCE CRITERIA

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

- | | |
|---|---|
| 1. Source information about skin and skin structures. | <ul style="list-style-type: none">1.1. Identify and access credible sources of information on anatomy and physiology of the skin.1.2. Research and obtain information on the anatomy and physiology of skin and skin structure.1.3. Research and obtain information on functions and role of skin.1.4. Obtain information on physiological basis of skin colour.1.5. Obtain information about growth, development, ageing and healing of human skin. |
| 2. Source information about skin conditions and contraindications. | <ul style="list-style-type: none">2.1. Research information about different skin disorders and conditions.2.2. Research and access information about contraindications and precautions which may restrict skin therapy or treatment or require referral to a medical professional.2.3. Research and obtain information about possible adverse reactions to skin therapy and products and appropriate remedial action.2.4. Research and access information about the effect that lifestyle factors have on skin. |
| 3. Apply knowledge of skin to determine skin therapy, care and aftercare. | <ul style="list-style-type: none">3.1. Access and evaluate information about skin and skin structures and how it relates to skin therapy.3.2. Incorporate and integrate knowledge of skin anatomy and physiology into skin therapy.3.3. Apply knowledge of skin anatomy and physiology as it relates to provision of aftercare service and advice.3.4. Provide advice to clients on lifestyle effects on skin and benefits of lifestyle changes in relation to skin therapy.3.5. Use relevant information to enhance understanding and improve performance of own area of work. |
| 4. Update and maintain knowledge of skin anatomy and physiology. | <ul style="list-style-type: none">4.1. Identify and use opportunities to update and expand knowledge of skin and anatomy and physiology.4.2. Share updated information about skin anatomy and physiology with clients and colleagues as required. |

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: • skin science publications • manufacturer promotions • industry publications and trade journals • extract relevant information from: • organisational procedures • manufacturer instructions • interpret both familiar and unfamiliar, and potentially complex documents: • texts on skin anatomy and physiology • materials describing skin conditions, contraindications and effects of skin therapy.
Oral communication skills to:	• translate information on anatomy and physiology of the skin when providing advice, responding to questions, and providing information and reassurance to clients on skin therapy and treatments • use correct terminology when consulting or treating clients.
Learning skills to:	• evaluate own knowledge and skill in relation to emerging skin treatments and determine learning needs • source and integrate knowledge and understanding of skin into own practice in providing skin therapy and treatments.

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 SHBBSSC003 Research and apply information on skin science in a skin therapy context

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 the job role, and:

- source, interpret and collect information using at least three credible sources on skin anatomy and physiology as applicable to skin therapy
- use information gathered to produce at least one report with correct referencing to enable use by self and others.

Knowledge Evidence

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

- anatomy and physiology of skin
- gender, age and ethnic variations in skin anatomy and physiology
- anatomy and physiology of the dermal and epidermal junction:
 - structure, components, function and changes due to age, and trauma
 - melanocyte- melanogenesis- melanin transfer
 - UV exposure
 - role in wound
 - role in wound healing
- anatomy and physiology of the dermis:
 - layers
 - structural proteins
 - specialised cells and cell products – fibroblasts, fibrocytes, fibrillin, fibronectin and laminin
 - proteoglycans and glycosaminoglycans
- anatomy and physiology of the subcutaneous tissues:
 - fibroseptae
 - age related changes:
 - fat pad atrophy
 - fat loss
 - fat deposition
- anatomy and physiology of the muscle tissue and ageing changes

- anatomy and physiology of skeletal ageing and remodelling
- histology of photoaged and photoprotected skin
- molecular mechanisms of photoaging:
 - characteristics, formation and breakdown of collagen type I and III
 - free radicals
 - inhibition of procollagen production
 - matrix metalloproteinases
 - mechanical tension model of fibroblasts
- effects of ultra-violet radiation:
 - skin
 - skin chromophores
 - cutaneous micro-vasculature
- prevention of photoaging including physical and chemical protection and use of retinoids and antioxidants
- symptoms of photoaging:
 - roughness and dryness
 - fine and coarse wrinkling
 - textural changes
 - elastosis
 - atypical skin lesions
 - dyschromia
 - sallowness
 - superficial vascular abnormalities
- the epidermis and its role in skin texture
- epidermal barrier:
 - formation, function and location of structural components:
 - stratum corneum
 - cornified envelope
 - cornified envelope precursor proteins
 - lamellar granules
 - stratum corneum interfacial lipids
 - lipid-protein cross links
 - desmosomes and corneodesmosomes
 - keratohyalin
 - natural moisturising factor
 - pH and calcium gradients
 - specialised enzymes (lipases, glycosidases, proteases)
 - melanin granules
 - barrier function, components and location within the epidermis:
 - water and electrolyte permeability

- mechanical, anti-microbial and immune protection
- natural moisturising factor, skin hydration and moisturisation
- protection from environmental toxins and topical penetration or absorption
- desquamation and role of proteolytic enzymes
- melanin and the ultra-violet radiation barrier
- oxidative stress barrier
- epidermal barrier homeostasis:
 - desquamation
 - coenocytic maturation
 - lipid synthesis
 - environmental and physiologic factors
 - hormones, pH and calcium
- biological processes related to acne including:
 - inflammatory skin conditions:
 - acne
 - rosacea
 - psoriasis
 - atopic dermatitis
 - pigmentation disorders:
 - hyper
 - hypo
 - post-inflammatory hyperpigmentation
 - vascular:
 - lesions
 - vessels
- skin diagnosis frameworks and terminology:
 - Fitzpatrick skin types
 - Rubin classification of ageing
 - Glogau classification of photoaging
 - acne grades and types
 - rosacea grades and types
 - intrinsic and extrinsic skin ageing
- common medications and their effect on skin and beauty treatment outcomes
- scope of practice of beauty therapists and health care professionals in providing beauty and cosmetic treatments
- normal, abnormal and delayed wound healing
- basic nutrition and the relationship between nutrition and healthy skin, particularly foods which may have an effect on skin or which may be contraindicated in combination with relevant skin conditions or products used in a treatment procedure.

Assessment Conditions

Skills must be demonstrated in a beauty treatments area; this can be:

- an industry workplace
- a simulated industry environment.

Assessment must ensure access to:

- relevant documentation:
 - sources of information on anatomy and physiology of the skin and skin structures as related skin therapy.

Assessment must ensure use of:

- anatomical models, charts or diagrams
- colour photographs of aged and acne skin conditions
- relevant documentation including:
 - manufacturer equipment instructions
 - product instructions
 - manufacturer and product safety data sheets.

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.

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