

UBT124M

Cosmetic make-up science

Unit reference number: M/507/5473

Level: 3

Guided Learning (GL) hours: 30

Overview

This unit is about developing an understanding relating to the chemistry of products used in the make-up industry through theoretical research. You will explore the chemistry of active ingredients and the effects and safe use of active ingredients. This unit is underpinned by both health and safety working practices and the identification of client contra-indications.

Learning outcomes

On completion of this unit learners will:

LO1 Know the chemistry of active ingredients in make-up products

LO2 Understand the safe use of active ingredients in make-up products

Assessment requirements

Learners must complete **all** the assessment requirements related to this unit:

1. External examination
2. Graded synoptic assessment

1. External examination

The theory content of LO1 and LO2 will be tested by external examinations at the end of the period of learning.

External examinations will test knowledge and understanding from across the whole vocational area (mandatory units). Learners should use the unit content section of this unit to aid revision since exam questions will test the full breadth of this section.

External examinations will be set and marked by VTCT and will contribute to the overall qualification grade.

2. Graded synoptic assessment

In the last term or final third of their qualification, learners will be required to undertake a graded synoptic assessment. This will require learners to carry out a range of services from across the whole vocational area (mandatory units). Assessment coverage will vary year on year, although all services will be covered over time.

VTCT will set a brief for centres which will detail the services to be covered in the graded synoptic assessment. Grading descriptors for the synoptic assessment will also be provided by VTCT.

The graded synoptic assessment will be marked and graded by centre staff and externally verified by VTCT.

The graded synoptic assessment will contribute to the overall qualification grade.

Unit content

LO1 Know the chemistry of active ingredients in make-up products

Learners must know the different ingredients found in make-up products:

- Oils, fats and waxes (derivatives of animal, vegetable, mineral and synthetic), e.g. Carnauba, mineral oil and lanolin
- Alcohols e.g. Isopropyl alcohol
- Polyethylene glycol (PEG), propylene glycol (PG), sodium lauryl sulphate (SLS) and sodium lauryl ether sulphate (SLES)
- Diethanolamine (DEA), monoethanolamine (MEA), triethanolamine (TEA)
- FD&C pigments, metal-based pigments and biological pigments
- Metal oxides e.g. titanium dioxide, iron oxide
- Formaldehyde

Learners must be able to describe the purpose of the active ingredients in make-up products:

- Active ingredients found in make-up products include
 - Colour cosmetics, pigment molecules (FD&C, metal based, inorganic and biological)
 - Titanium dioxide and iron oxide
 - Isopropyl alcohol, butyl alcohol, cetyl alcohol used as stabilisers and solvents
 - Beeswax, used as an emollient and to make scar wax
 - Organic and inorganic sunscreens (e.g. ethylhexyl salicylate, oxybenzone, titanium and zinc oxide)
 - Antioxidants (e.g. vitamins A,C and E, co-enzyme Q10)
 - Emollients (e.g. ceresin and natural oils)
 - Humectants (e.g. glycerine and urea)
 - Adhesives (resin, silicone, latex, cyanoacrylates)
 - Solvents (water, alcohol, citric acid, acetone)

LO2 Understand the safe use of active ingredients in make-up products

Learners must understand how to follow safe working practices with regard to contra-indications presented by the client:

- Consultation techniques (open and closed questioning, sensitivity, respect for the client)
- Record keeping, contra-indications, signatures, refer to existing records, information - clear, accurate and in logical order (name, address, contact numbers, age range, reason for application)
- Data protection
- Patch testing, tested area, timing
- Allergic reaction, subsequent action
- Contra-actions and steps to deal with them

Learners must understand safe working practices with regard to the storage, handling and application of make-up products:

- Regulations e.g. Control of Substances Hazardous to Health (COSHH)
- Material safety data sheets - provides workers with procedures for handling or working with that substance in a safe manner and includes information such as physical data (melting point, boiling point, flash point etc.), toxicity, health effects, first aid, reactivity, storage, disposal, protective equipment, and spill-handling procedures
- Storage, handling and disposal
- Record keeping

Learners must know the organisations responsible for monitoring the safety, standardisation and testing of cosmetic make-up products:

- EU legislation on cosmetics (EU regulation 1223/2009)
- Scientific Committee on Consumer Products (addresses questions in relation to the safety and allergenic properties of cosmetic products and ingredients with respect to their impact on consumer health)
- Cosmetic Safety Product Reports to be produced by all manufacturers to comply with EU regulations
- US food and drug administration (FDA)
- International co-operation on cosmetics

Resources

The special resources required for this unit are access to a real or realistic working environment which supports the provision of make-up services. Learners must be able to use the products specified and gain experience of their properties and effects.

Delivery guidance

Teachers are encouraged to use innovative, practical and engaging delivery methods to enhance the learning experience. Learners may benefit from:

- Meaningful employer engagement so they relate what is being learned to the real world of work and understand commercial competence and product, tools and equipment usage
- Work experience within a commercial make-up studio so they can practise to hone their skills in a real environment, gaining experience of the properties of different products and their safe usage within industry
- Using interactive information and technology, systems and hardware so they can learn about concepts and theories; research current trends; research product knowledge and produce visual aids

Links with other units

This unit is closely linked with the following units:

UCO28M Health and safety in the salon

Health and safety should be delivered first since it greatly underpins the present unit. Specifically, learners will be required to apply their knowledge and understanding of health and safety when preparing for and providing cosmetic make-up applications in real or realistic working environments.

UBT90M Client care and consultation

Client consultation before all make-up treatments is actually a legal requirement and failure to consult properly with clients prior to treatment could invalidate insurance. It is essential that make-up artists elicit information from their clients about their medical history, including any allergies, as well as checking for contra-indications. The client consultation unit underpins all technical units within this qualification and should be delivered prior to the delivery of any make-up units.

UBT120M Anatomy and physiology for make-up services

Knowledge of the structure and function of the skin, as well as skin diseases and disorders, most significantly underpins the knowledge and practical skills gained in this unit. Other elements of anatomy and physiology are also relevant to this unit in terms of understanding contra-indications to treatment as well as possible contra-actions.

UBT121M Bridal make-up

Knowledge of the active ingredients used in the formulation of cosmetic make-up products significantly underpins the make-up artist's ability to use safe and effective working methods. This is also relevant to this unit in terms of understanding contra-indications and contra-actions as well as the storage, handling, usage and disposal of cosmetic make-up products in a real or realistic working environment.

UBT118M Photographic make-up

Photographic make-up applications require the use of a wide variety of cosmetic make-up products. Knowledge of the active ingredients and chemical processes in the use of cosmetic make-up products significantly underpins the make-up artist's ability to use safe and effective working methods. This is also relevant to this unit in terms of understanding contra-indications and contra-actions as well as the storage, handling, usage and disposal of cosmetic make-up products in a real or realistic working environment.

Graded synoptic assessment

At the end of the qualification of which this unit forms part, there will be a graded synoptic assessment which will assess the learner's ability to identify and use effectively in an integrated way an appropriate selection of skills, techniques, concepts, theories, and knowledge from a number of units from within the qualification. It is therefore necessary and important that units are delivered and assessed together and synoptically to prepare learners suitably for their final graded assessment.