

**SAMPLE ASSESSMENT MATERIAL**

**UNIT 3 - THE SCIENCE OF HAIR AND BEAUTY**



**Sample assessment material - information for teachers**

**This assignment is provided as an example only. Consortia should produce their own assessments in line with the assessment section of the unit, based on their local delivery circumstances.**

**Overview**

This assignment is based on the case study below. It is taken under controlled conditions, in which the learner will complete three tasks. The first is an illustrated report or annotated display to show factors affecting the health and condition of hair, skin and nails. The second is to perform hair and beauty related tests and the third is to produce pictorial evidence of how appearance can be enhanced by applying the principles of colour and light.

It is expected that the learner will complete the work for the tasks in any of the following settings: in the classroom, a realistic learning environment or an options evening or similar event at the school/college.

**Time**

It is expected that approximately 5 hours will be taken to complete the tasks.

**Resources**

Learners may require access to word processing software, and could also use presentation software for the tasks. They will need access to testing resources i.e. hair beauty and nail products and samples of hair and different coloured fabric. A camera will enable learners to complete appendix 1 for task 3.

**Supervision**

Learners will need to be supervised when:

- producing the illustrated report or annotated display
- conducting the tests.

When conducting the tests learners must be observed by a teacher (bearing in mind the pre 16 restrictions on the use of chemicals, please select appropriate tests i.e. not a, d or h if under 16 yrs)

**Collaboration**

Learners may collaborate to obtain information in order to complete the tasks.

The report or display and conducting the tests are **not** suitable for collaborative work.

## Marking

Please note that the descriptions in this assessment grid relate to the top of each band. Further guidance on using assessment grids is available in the assessment section of the specification.

Learning outcomes	Band 1	Band 2	Band 3
	The learner has:		
	0 to 5 marks	6 to 9 marks	10 to 15 marks
1 Understand the key factors that affect the health and condition of hair, skin and nails	<p>Explained showing a limited awareness hair, skin and nail anatomy and physiology.</p> <p>Explained showing a limited awareness how key factors affect the health and condition of skin, hair and nail.</p> <p>Explained showing a limited grasp how imperfections and conditions can affect or limit services.</p>	<p>Explained showing a clear comprehension hair, skin and nail anatomy and physiology.</p> <p>Explained showing clear comprehension how key factors affect the health and condition of skin, hair and nail.</p> <p>Explained showing a clear grasp how imperfections and conditions can affect or limit services.</p>	<p>Explained showing an extensive appreciation hair, skin and nail anatomy and physiology.</p> <p>Explained by showing an extensive appreciation how key factors affect the health and condition of skin, hair and nail.</p> <p>Explained showing a full grasp how imperfections and conditions can affect or limit services.</p>
	0 to 4 marks	5 to 8 marks	9 to 12 marks
2 Know the scientific principles used within basic hair, beauty and nail technical services	<p>Described showing limited knowledge how active ingredients of hair and beauty products work.</p> <p>Described showing limited knowledge the tests used in the hair and beauty sector.</p> <p>Described showing limited knowledge the pH chart and the affects of pH.</p> <p>Summarised showing partial knowledge the uses and functions of electricity.</p> <p>Showed limited insight of the effects and use water type, temperature, heat and light on service delivery, products and equipment.</p>	<p>Described showing clear knowledge how active ingredients of hair and beauty products work.</p> <p>Described showing clear knowledge the tests used in the hair and beauty sector.</p> <p>Described showing clear knowledge the pH chart and the affects of pH.</p> <p>Summarised showing suitable knowledge the uses and functions of electricity.</p> <p>Showed clear insight of the effects and use of water type, temperature, heat and light on service delivery, products and equipment.</p>	<p>Described showing broad knowledge how active ingredients of hair and beauty products work.</p> <p>Described showing extensive knowledge the tests used in the hair and beauty sector.</p> <p>Described showing extensive knowledge the pH chart and the affects of pH.</p> <p>Summarised showing considerable knowledge the uses and functions of electricity.</p> <p>Showed broad insight of the effects and use of water type, temperature, heat and light on service delivery, products and equipment.</p>
	0 to 4 marks	5 to 8 marks	9 to 12 marks
3 Be able to apply the principles of colour and light to enhance appearance	<p>Sometimes used principles of colour and generated own ideas and explored possibilities when selecting complementary colours that enhanced appearance.</p> <p>Compared different types of light and their effects with limited accuracy.</p>	<p>Often used principles of colour and generated own ideas and explored possibilities when selecting complementary colours that enhanced appearance.</p> <p>Compared different types of light and their effects with good accuracy.</p>	<p>Most of the time used principles of colour and generated own ideas and explored possibilities when selecting complementary colours that enhanced appearance.</p> <p>Compared different types of light and their effects with excellent accuracy.</p>

Learning outcomes	Band 1	Band 2	Band 3
	The learner has:		
	0 to 7 marks	8 to 14 marks	15 to 21 marks
4 Be able to safely conduct basic tests used in the hair and beauty sector	<p>Used safe working practices when carrying out hair and beauty related tests under close supervision.</p> <p>Followed guidelines with continual prompting to store and dispose of resources.</p> <p>Limited analysis and brief conclusions were given.</p>	<p>Used safe working practices when carrying out hair and beauty related tests under periodic supervision.</p> <p>Followed guidelines with occasional prompting to store and dispose of resources.</p> <p>Detailed analysis and brief conclusions were given.</p>	<p>Used safe working practices when carrying out hair and beauty related tests under minimal supervision.</p> <p>Followed guidelines with minimal prompting to store and dispose of resources.</p> <p>Detailed analysis and extensive conclusions were given.</p>

## Sample assessment material – information for learners

### Assignment overview

For this assignment you are required to

- Produce an illustrated report or annotated display to show factors affecting the health and condition of hair, skin and nails
- Conduct two hair or beauty related tests
- Give advice to two people on how to enhance their appearance

### Time

You will take approximately 5 hours to complete the assessment

### Roles

Your teacher will mark your work and keep it for moderation purposes. Your teacher will observe you carrying out tasks 2 and 3.

### Assignment Brief



The Hearts Temple School

You are an assistant in the hair and beauty salon 'Greens'.

The Hearts Temple School has asked your salon to take part in their science week. The aim of the week is to encourage pupils to take up science as options at Key stage 4 and 5. It has been identified that some pupils cannot see the relevance of science in the world of work so it is your job to show how science is an integral part of the hair and beauty sector.

You will have a stand in the foyer of the school which will be in full view of all visitors and pupils. The school will also be holding their options evenings during this week and you will stay for one of these.

You will create a presentation showing how science is used in the sector and do practical demonstrations throughout to engage the interest of potential learners.

### Task 1 - 27 marks

You will produce an illustrated report or annotated display

- exhibiting a range of anatomical and physiological terms used hair and beauty in the sector.
- You will refer to these terms when explaining how key factors affect the health and condition of hair, skin and nails and how imperfections and conditions of the hair, skin and nails can affect or limit services.
- The report/display will include a description of how the active ingredients of hair, beauty and nail products work (a minimum of 1 product from hair, beauty and nail industries)
- A diagram of the pH scale labelled with examples of hair, beauty and nail products. Included in this you must state the effects of pH on the hair, skin and nails
- An explanation of the uses and functions of electricity in the hair and beauty sector
- A description of how to safely conduct the two tests chosen for Task 2. Your description should include the reason why the tests are necessary
- A statement on the effects and uses of the following in the hair and beauty industry

- i. Water type
- ii. Water temperature
- iii. Heat
- iv. Light

### **Task 2 – 21 marks**

You will safely conduct **two** out of the following tests whilst being observed by a teacher

- a) Skin/sensitivity test
- b) Porosity test
- c) Elasticity test
- d) Strand test
- e) Tactile test
- f) pH testing
- g) Hard/soft water testing
- h) Incompatibility

As part of the demonstration you need to show learners how to record results. You will accurately record the results of the above tests, analyse these and draw conclusions. You will show how you followed safety guidelines on storage and disposal of resources used for the tests.

### **Task 3 - 12 marks**

You will work on a minimum of **two** people to show your ability to apply the principles of colour and light. You will suggest ways of enhancing their appearance with the use of colour e.g. hair colour, make-up and nail colours. You will give advice on how different types of light affect the appearance of colour

You may use Appendix 1 when completing task 3 or you may design your own method of displaying your ability.

**Appendix 1- for Task 3 - Applying the principles of colour**

**TASK 3**

Learner name:..... Date:.....

Stick a photo of your model here

**Details of model:**

Male/female

Age: .....

Hair colour: light/medium/dark

Hair tone: Red/copper/gold/ash

Skin colour: Light/medium/dark

Skin tone: warm/cool

**Taking into account the above information, I would advise my model to use the following colours to enhance their appearance.**

Stick swatches of coloured material (for clothing) here

Samples of make-up here

Examples of hair colours here

Samples of nail colours here

**The reasons I have chosen these colours are:**

.....

.....

.....

**Advice on lighting and how this affects colours:**

**Natural light:**

.....

.....

**Artificial light:**

.....

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SIGNED – LEARNER - MODEL –