



Higher National Unit specification

General information for centres

Unit title: Dental Removable Prosthodontics: Complete

Unit code: F1MC 34

Unit purpose: The Unit allows the candidate to develop the necessary knowledge and skills to allow them to construct and finish complete dentures and produce a replacement of an existing complete denture.

On completion of the Unit the candidate should be able to:

- 1 Explain the design considerations for complete removable prosthodontic appliances.
- 2 Set teeth and process complete upper and lower dentures in balanced articulation.
- 3 Construct a replacement set of complete dentures.

Credit points and level: 1 HN credit at SCQF level 7: (8 SCQF credit points at SCQF level 7*)

**SCQF credit points are used to allocate credit to qualifications in the Scottish Credit and Qualifications Framework (SCQF). Each qualification in the Framework is allocated a number of SCQF credit points at an SCQF level. There are 12 SCQF levels, ranging from Access 1 to Doctorates.*

Recommended prior knowledge and skills: Access to this It would be beneficial for the candidate to have completed a local programme of National Qualification Units in Dental Technology at SCQF level 6 or equivalent and the Higher National Unit: F1M6 34 *Dental Biomaterials*. Candidates could also have completed an induction to dental technology course.

Core Skills: There are opportunities to develop the Core Skills of Communication to SCQF level 6, Problem Solving to SCQF level 6, and Numeracy to SCQF level 5 in this Unit, although there is no automatic certification of Core Skills or Core Skills components.

Context for delivery: If this Unit is delivered as part of a Group Award, it is recommended that it should be taught and assessed within the subject area of the Group Award to which it contributes.

Assessment: The assessment of Outcome 1 of this Unit could consist of 10 short answers questions lasting no more than 45 minutes. Outcomes 2 and 3 require the candidate to complete practical assessments where the candidate produces two pieces of practical work displaying competent technical performance in the manipulation of dental materials to a given prescription. The practical assessments should be carried out within a dental laboratory setting.

Higher National Unit specification: statement of standards

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The sections of the Unit stating the Outcomes, Knowledge and/or Skills, and Evidence Requirements are mandatory.

Where evidence for Outcomes is assessed on a sample basis, the whole of the content listed in the Knowledge and/or Skills section must be taught and available for assessment. Candidates should not know in advance the items on which they will be assessed and different items should be sampled on each assessment occasion.

Outcome 1

Explain the design considerations for complete removable prosthodontic appliances

Knowledge and/or Skills

- ◆ Oral anatomical landmarks
- ◆ Physiological structures
- ◆ Denture peripheral outline and coverage
- ◆ Complete denture retention
- ◆ Tooth selection
- ◆ Anatomical Guides

Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can:

- ◆ explain how the oral anatomical landmarks and the physiological structures influence the denture outline and tissue coverage
- ◆ identify and describe the four main factors that influence denture retention (Physical; Mechanical; Anatomical; Physiological)
- ◆ explain the importance of, and the factors affecting tooth selection of anterior and posterior teeth (Sex, age and physical properties of the patient; Mould (Size) and Shade (Colour) of teeth; Cuspal Form of posterior teeth)
- ◆ explain the term Anatomical Guides and explain their influence in relation to setting teeth

Assessment Guidelines

See Outcome 3.

Higher National Unit specification: statement of standards (cont)

Unit title: Dental Removable Prosthodontics: Complete

Outcome 2

Set teeth and process complete upper and lower dentures in balanced articulation

Knowledge and/or Skills

- ◆ Occlusion
- ◆ Dental articulators
- ◆ Complete dentures in acrylic resin

Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can:

- ◆ produce one set of complete dentures in acrylic resin for an Angle's Class One edentulous patient, with the teeth set in balanced articulation
- ◆ produce one set of complete dentures for wax trial for either: an Angle's Class Two division one edentulous patient; an Angle's Class Two division two edentulous patient; or an Angle's Class Three edentulous patient, with the teeth set in balanced articulation

The Outcome must be assessed in a dental laboratory setting.

Assessment Guidelines

See Outcome 3.

Outcome 3

Construct a replacement set of complete dentures

Knowledge and/or Skills

- ◆ Replacement dentures
- ◆ Advantages and disadvantages
- ◆ Indications and contra-indications

Evidence Requirements

Candidates will need to provide evidence to demonstrate their Knowledge and/or Skills by showing that they can:

- ◆ produce one set of replacement complete dentures in acrylic resin

The production of a replacement complete dentures should take place in a dental laboratory setting.

- ◆ Explain the advantages and disadvantages of this technique.
- ◆ Describe when and when not to use this technique.

Higher National Unit specification: statement of standards (cont)

Unit title: Dental Removable Prosthodontics: Complete

Assessment Guidelines

The assessment of Outcome 1 could consist of 10 short answers questions lasting no more than 45 minutes. Outcomes 2 and 3 require the candidate to display competent technical performance in the manipulation of dental materials to given. The practical assessments should be carried out within a dental laboratory setting. Assessors, in Outcome 3, may question the candidate in the dental laboratory on the advantages and disadvantage of the technique and when the technique may or may not be used.

Administrative Information

Unit code: F1MC 34

Unit title: Dental Removable Prosthodontics: Complete

Superclass category: PF

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Version	Description of change	Date

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Higher National Unit specification: support notes

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This part of the Unit specification is offered as guidance. The support notes are not mandatory.

While the exact time allocated to this Unit is at the discretion of the centre, the notional design length is 40 hours.

Guidance on the content and context for this Unit

The purpose of this Unit is to allow candidates to develop knowledge and understanding, and practical skills by constructing a variety of simple removable prosthodontic restorations for the edentulous patient.

It is envisaged that the teaching of this Unit could be delivered through lecturer mediated discussion, practical demonstrations and the reading of recommended texts.

A list of topics for each Outcome is given below.

Outcome 1

In this Outcome the candidates may be able to outline the design considerations for complete removable prosthodontic appliances.

Candidates may be able to explain the denture outline and coverage in relation to:

- ◆ Oral anatomical landmarks
- ◆ Physiological structures

Candidates may also be able to identify and describe the four main factors that influence denture retention, namely:

- ◆ Physical; adhesion, cohesion, atmospheric pressure
- ◆ Mechanical; fit, balanced occlusion, balanced articulation, shape
- ◆ Anatomical; condition of the soft tissue
- ◆ Physiological; muscle action

The candidate may be able to explain the importance of, and the factors affecting tooth selection of anterior and posterior teeth:

- ◆ Sex of patient
- ◆ Age of patient
- ◆ Physical size of patient
- ◆ Mould (Size) and Shade (Colour) of teeth
- ◆ Cuspal Form of posterior teeth

The candidate may be able to explain what is understood by the term 'Anatomical Guides' and their influence in relation to setting teeth.

Higher National Unit specification: support notes (cont)

Unit title: Dental Removable Prosthodontics: Complete

Outcome 2

In this Outcome the candidate could demonstrate an ability to set teeth and process complete upper and lower dentures in balanced articulation.

In this Outcome the candidate could demonstrate an understanding of the terms 'Balanced Occlusion' and 'Balanced Articulation'. The candidate may be able to describe the three concepts of Occlusion:

- ◆ Bilateral Balanced Occlusion
- ◆ Unilateral Balanced Occlusion
- ◆ Mutually Protected Occlusion

The Candidates may be able to compare and contrast the characteristics of:

- ◆ Average Movement Articulator
- ◆ Fully adjustable (Anatomical) Articulator

The candidates may be able to demonstrate one method of 'Flasking' and 'Packing' in relation to complete denture construction. The candidate should be able to explain alternative methods currently utilised in industry.

The candidates could be able to demonstrate an understanding of the causes of error during the processing of complete dentures and how to rectify these errors.

Outcome 3

In this Outcome the candidate could demonstrate an ability to construct replacement (duplicate) complete dentures from an existing set of complete dentures.

The candidate may be able to explain the processes involved in the construction of a duplicate denture and highlight the advantages and disadvantages of the technique.

The candidate may be able to describe when this technique would be appropriate (indications) and when this technique would not be appropriate (contra-indications).

Guidance on the delivery and assessment of this Unit

It is envisaged that the teaching of this Unit could be delivered through lecturer mediated discussion, practical demonstrations and the reading of recommended texts.

The assessment of Outcome 1 could consist short answers questions lasting no more than 45 minutes. The assessment for Outcomes 2 and 3 will be carried out within a dental laboratory setting.

Higher National Unit specification: support notes (cont)

Unit title: Dental Removable Prosthodontics: Complete

Opportunities for developing Core Skills

In completing the class work of Outcome 1 candidates have the opportunity to develop the component 'Written Communication (reading)' of the Core Skill Communication at level 5. Candidates will have the opportunity to analyse and evaluate complex information from a variety of dental literature sources. The general Core Skill that the candidate may have to complete is 'Read, understand and evaluate written communication'.

There is also the opportunity for the candidate to develop the components 'Planning and Organising' and 'Reviewing and Evaluating' of the Core Skill Problem Solving at SCQF level 6 while completing the class work of Outcome 2. In this Outcome the candidate will produce two sets of complete dentures: a class one malocclusion finished in acrylic resin; and either a class 2 or a class 3 malocclusion waxed-up for trial, this will require the candidate to organise, plan and review the procedures involved in the task as well as evaluating the Outcome.

Outcome 3 the candidate will have the opportunity to develop the components 'Planning and Organising' and 'Reviewing and Evaluating' of the Core Skill Problem Solving at SCQF level 6 while completing the class work. The class work involves the candidate producing replica (duplicate) denture, this will require the candidate to organise, plan and review the procedures involved in the tasks and evaluate the Outcome. The general Core Skills that the candidate may have to complete are 'Plan, organise and complete a task', 'Review and evaluate a problem solving activity'.

In Outcome 2 and 3 each of the practical exercises requires the candidate to be familiar with a variety of weights and measures. This will give the candidate the opportunity to develop the component 'Numeracy — Using Number' of the Core Skill Numeracy at SCQF level 5.

The Core Skill of Numeracy: Using Graphical Information SCQF level 5 could also be developed within this Unit in particular in relation to the work within the laboratory. The general skill at SCQF level 5 is 'Interpret and communicate graphical information in everyday and generalised contexts'. Candidates can be encouraged to analyse and interpret information from suppliers data which has been presented in complex graphical form. This Core Skill could be developed without formal certification.

The assessment of this Unit may also contribute towards the component 'Written Communication (writing)' of the Core Skill Communication at SCQF level 6. Candidates may have to structure their responses, which could include complex vocabulary, accurately and using a logical structure. The general Core Skill that candidates may have to complete is 'Produce well-structured written communication on complex topics'.

Open learning

This Unit could be delivered by distance learning, which may incorporate some degree of online support. With regard to assessment for Outcome 1, planning would be required of the centre concerned to ensure the sufficiency and authenticity of the candidate evidence. Assessment for Outcomes 2 and 3 should take place in a dental laboratory setting.

Higher National Unit specification: support notes (cont)

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Candidates with disabilities and/or additional support needs

The additional support needs of individual candidates should be taken into account when planning learning experiences, selecting assessment instruments, or considering alternative Outcomes for Units. Further advice can be found in the SQA document *Guidance on Assessment Arrangements for Candidates with Disabilities and/or Additional Support Needs* (www.sqa.org.uk).

General information for candidates

Unit title: Dental Removable Prosthodontics: Complete

This Unit has been designed to develop your knowledge, understanding, and practical skills by constructing one set of complete dentures and one set of replacement (duplicate) dentures.

The Unit has three main areas, each the subject of a separate Outcome. Firstly you will be looking at the design considerations involved in the construction of complete dentures. You will then set teeth in balanced articulation and process in acrylic resin one set of complete dentures for an Angle's Class One edentulous patient. This is then followed by the construction of one set of replacement (duplicate) complete dentures.

On completion of this Unit you will be able to:

- ◆ explain the design considerations for complete removable prosthodontic appliances
- ◆ set teeth and process complete upper and lower dentures in balanced articulation
- ◆ construct a set of replacement complete dentures

Outcome 1 could consist of an assessment in the form of a 10 short answer questions lasting no longer than 45 minutes. Outcomes 2 and 3 should be carried out within a dental laboratory setting. The assessments will normally be carried out at the end of delivery of the Unit.

In completing the class work and assessments of this Unit you may have the opportunity to develop the Core Skills: Communication up to SCQF level 5; Numeracy up to SCQF level 4, and Problem Solving up to SCQF level 6.