



National unit specification

General information

Unit title: Dental Record Blocks (SCQF level 6)

Unit code: HK6F 46

Superclass: PF

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Unit purpose

This unit has been designed to develop learner's knowledge, understanding and practical skills in the construction of dental record blocks.

Learners will examine the properties and types of materials used in dental record block construction, producing dental record blocks to the specification and quality required whilst ensuring safe working practices are applied throughout.

This is an introductory unit, mandatory within the National Certificate in Dental Technology so is appropriate for trainee Dental Technicians.

Outcomes

On successful completion of the unit the learner will be able to:

- 1 Describe the construction and uses of record blocks.
- 2 Describe the properties and types of materials used in record block construction and the reasons for their use.
- 3 Produce partial and complete record blocks to prescription, using a range of materials and ensuring safe working practices at all times.
- 4 Evaluate the quality of the dental record blocks produced.

Credit points and level

1 National unit credit at SCQF level 6: (6 SCQF credit points at SCQF level 6)

National unit specification: General information (cont)

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Recommended entry to the unit

Access to this unit is at the discretion of the centre. It is recommended that learners have some prior knowledge of oral anatomy. It would be beneficial if learners had successfully completed or be working towards the unit Dental Care Professional: *Fitness to Practice*

Core Skills

Opportunities to develop aspects of Core Skills are highlighted in the support notes for this unit specification.

There is no automatic certification of Core Skills or Core Skill components in this unit.

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.

Equality and inclusion

This unit specification has been designed to ensure that there are no unnecessary barriers to learning or assessment. The individual needs of learners should be taken into account when planning learning experiences, selecting assessment methods or considering alternative evidence.

Further advice can be found on our website www.sqa.org.uk/assessmentarrangements.

National unit specification: Statement of standards

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Acceptable performance in this unit will be the satisfactory achievement of the standards set out in this part of the unit specification. All sections of the statement of standards are mandatory and cannot be altered without reference to SQA.

Outcome 1

Describe the construction and uses of record blocks.

Performance criteria

- (a) Describe the construction of record blocks.
- (a) Describe the uses of record blocks.

Outcome 2

Describe the properties and types of materials used in record block construction and the reasons for their use.

Performance criteria

- (a) Describe the properties and types of materials used in record block construction.
- (b) Describe reasons for the use of materials used in record block construction.

Outcome 3

Produce partial and complete record blocks to prescription, using a range of materials and ensuring safe working practices at all times.

Performance criteria

- (a) Produce F/- shellac base dental record blocks to the prescription and ensuring safe working practices.
- (b) Produce -/F light cure base dental record blocks to the prescription and ensuring safe working practices.
- (c) Produce P/P wax / wire dental record blocks to the prescription and ensuring safe working practices.

Outcome 4

Evaluate the quality of the dental record blocks produced.

Performance criteria

- (a) Accurately assess the quality of F/- shellac base dental record blocks.
- (b) Accurately assess the quality of -/F light cure base dental record blocks.
- (c) Accurately assess the quality of P/P wax / wire dental record blocks.

National unit specification: Statement of standards (cont)

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Evidence requirements for this unit

Evidence is required to demonstrate that learners have achieved all outcomes and performance criteria.

Learners should be presented with real or simulated projects and will be given a clear brief to ensure that they have the opportunity to achieve all the performance criteria.

Evidence must be provided to show that learners can demonstrate understanding of information, materials, terminology, practices and techniques related to the production of dental record blocks. Evidence must also be provided to show that learners can apply relevant knowledge and skills in a practical context.

Learners will be required to demonstrate safe working practices, including infection prevention and control during the practical aspects of delivery and assessment of this unit.

For Outcome 1 and Outcome 2, learners must provide evidence of the following in closed-book conditions:

- ◆ Description of the construction of record blocks
- ◆ Description of the uses of record blocks
- ◆ Description of the properties, types of materials and their uses in the construction of record blocks

The descriptions should include reference to the following record blocks:

- ◆ F/- shellac base dental record blocks
- ◆ -/F light cure base dental record blocks
- ◆ P/P wax/wire dental record blocks

For Outcome 3, product evidence must be produced under supervised conditions to show that learners can construct the following partial and complete record blocks to the given prescription and ensuring safe working practices at all times:

- ◆ One F/- shellac base dental record block
- ◆ One -/F light cure base dental record blocks
- ◆ One P/P wax / wire dental record blocks

For Outcome 4, product evidence must be produced to show that learners can assess the quality of the dental record blocks constructed in terms of their accuracy to the given prescription.



National unit support notes

Unit title: Dental Record Blocks (SCQF level 6)

Unit support notes are offered as guidance and 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

This introductory unit forms part of the NC in Dental Technology at SCQF level 6. It will develop learner's knowledge, understanding and practical skills in the construction of dental record blocks. Where this unit is delivered as part of a National Course it would be beneficial if learners had first completed the *unit Dental Cast Production: an Introduction*

Outcome 1 and Outcome 2 provides learners with the underpinning knowledge of the types of and materials used in the construction of dental record blocks and their uses.

Types of dental record blocks include:

- ◆ complete record block
- ◆ partial record block

The materials used in the construction of dental record blocks include:

- ◆ modelling wax
- ◆ light cure material
- ◆ shellac
- ◆ wire

There are various uses for dental record blocks, including:

- ◆ Recording vertical dimensions
- ◆ Recording occlusal plane
- ◆ Recording central line
- ◆ Recording mid lip line
- ◆ Recording high lip line
- ◆ Recording canine lines

Completion of Outcomes 1 and 2 will prepare learners for the practical activities in Outcomes 3 and 4.

National unit support notes (cont)

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Outcome 3 is practical and provides learners with the opportunity to develop their skills in constructing dental record blocks to a given prescription. The importance of safe working practices and infection prevention and control should be emphasised during this outcome.

Learners will construct both partial and complete dental record blocks as stated:

- ◆ F/- shellac base dental record block
- ◆ -/F light cure base dental record blocks
- ◆ P/P wax/wire dental record blocks

Construction process will include:

- ◆ Base plate (in relation to anatomical landmark)
- ◆ Reinforcement (if necessary)
- ◆ Rim
- ◆ Finished to a clinically/bio-mechanically sound standard

The information provided on prescriptions will include:

- ◆ Patient's data
- ◆ Dentist's data
- ◆ Dental order

Outcome 4 is practical and provides learners with the opportunity to learn how to assess the accuracy of the dental record blocks produced. The final product will be compared to the given prescription requirements as detailed in Outcome 3.

Guidance on approaches to delivery of this unit

The learning and teaching of constructing dental record blocks is most effective when concepts, principles and theories are set in a relevant context, eg by making reference to their applications in real life situations. There is scope for integration with other introductory units, eg *Dental Care Professionals: Fitness to Practice*.

Learning and teaching approaches should include lectures, practical demonstrations, group work and individual exercises. The practical work can be reinforced from, eg moodle and worksheets. Resources used could include examples of dental record blocks and audio visual material.

Broader informal discussions may be incorporated to clarify difficulties and it may be beneficial to discuss industry constraints, eg timescales and costs. The importance of accurate adherence to prescriptions should be highlighted as well as safe working practices at all times. Learners can be signposted to relevant aspects of the following for further information on these topics.

- ◆ Medicines and Healthcare Regulatory Agency (MHRA)
- ◆ Health and Safety at Work Act

National unit support notes (cont)

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Guidance on approaches to assessment of this unit

Evidence can be generated using different types of assessment. The following are suggestions only. There may be other methods that would be more suitable to learners.

Centres are reminded that prior verification of centre-devised assessments would help to ensure that the national standard is being met. Where learners experience a range of assessment methods, this helps them to develop different skills that should be transferable to work or further and higher education.

An appropriate assessment method for Outcome 1 and Outcome 2 would be a range of short answer or restricted response questions — this could be via paper based assessment or e-assessment and would allow for integration of assessment of knowledge from other relevant units.

Outcome 3 may be assessed via observation of practice using an observation checklist and if necessary additional questioning to establish the learners underpinning knowledge and understanding.

Outcome 4 can be assessed through the submission of quality assurance checklists, completed by the learner, either under observation conditions or submitted for consideration with the final products of Outcome 3.

Opportunities for e-assessment

E-assessment may be appropriate for some assessments in this unit, particularly Outcomes 1 and 2. By e-assessment we mean assessment which is supported by Information and Communication Technology (ICT), such as e-testing or the use of e-portfolios or social software. Centres which wish to use e-assessment must ensure that the national standard is applied to all learner evidence and that conditions of assessment as specified in the evidence requirements are met, regardless of the mode of gathering evidence. The most up-to-date guidance on the use of e-assessment to support SQA's qualifications is available at www.sqa.org.uk/e-assessment.

National unit support notes (cont)

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Opportunities for developing Core and other essential skills

There will be opportunities to develop aspects of the Core Skills in *Communication* (Oral and Written skills) and *Information and Communication Technology (ICT)* (Accessing Information), *Numeracy* (Graphical Information, Using Number — Measuring and Calculation), *Working with Others* (Working Co-operatively with Others) and *Problem Solving* (Critical Thinking) throughout this unit.

There may also be opportunities to develop broader transferable skills which contribute to employability:

- ◆ Time management and organisational skills — through working to deadlines, punctuality, record keeping
- ◆ Sustainability — through consideration of the use of resources, recycling and waste
- ◆ Specific technical skills — through preparing, handling, producing and assessing dental record blocks
- ◆ Interpersonal skills such as listening, teamwork and study skills
- ◆ Personal development, eg self-confidence and self-motivation

History of changes to unit

Version	Description of change	Date

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General information for learners

Unit title: Dental Record Blocks (SCQF level 6)

This section will help you decide whether this is the unit for you by explaining what the unit is about, what you should know or be able to do before you start, what you will need to do during the unit and opportunities for further learning and employment.

This unit has been designed to develop knowledge, understanding and practical skills in the construction of dental record blocks and is suitable for trainee Dental Technicians.

It is an introductory unit which forms part of the NC in Dental Technology at SCQF level 6.

If you undertake this unit, you will learn about a range of dental materials used in the construction of dental record blocks and their uses, producing dental record blocks to a given prescription and the quality required whilst ensuring safe working practices are applied throughout.

It would be beneficial if you had already successfully completed the unit, *Dental Cast Production: an Introduction*.

There are four outcomes to complete:

- 1 Describe the construction and uses of record blocks.
- 2 Describe the properties and types of materials used in record block construction and the reasons for their use.
- 3 Produce partial and complete record blocks to prescription using a range of materials ensuring safe working practices at all times.
- 4 Evaluate the quality of the dental record blocks produced.

Assessment methods are varied and may include set question papers and observation of your practice.

There will be opportunities to develop aspects of the Core Skills in *Communication* (Oral and Written skills) and *Information and Communication Technology (ICT)* (Accessing Information), *Numeracy* (Graphical Information, Using Number — Measuring and Calculation), *Working with Others* (Working Co-operatively with Others) and *Problem Solving* (Critical Thinking) throughout this unit.

There may also be opportunities to develop your broader transferable skills which contribute to employability:

- ◆ Time management and organisational skills — through working to deadlines, punctuality, record keeping
- ◆ Sustainability — through consideration of the use of resources, recycling and waste
- ◆ Specific technical skills — through preparing, handling, producing and assessing dental record blocks
- ◆ Interpersonal skills such as listening, teamwork and study skills
- ◆ Personal development, eg self-confidence and self-motivation