



Australian Government

HLTDET011 Construct ceramic and fixed restorations

Release: 1

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Modification History

Release	Comments
Release 1	This version was released in <i>HLT Health Training Package release 3.0</i> and meets the requirements of the 2012 Standards for Training Packages. Merged HLTDT512D/HLTDT513C Significant changes to the elements and performance criteria. New evidence requirements for assessment including volume and frequency requirements. Removal of pre-requisites

Application

This unit of competency describes the skills and knowledge required to take a tooth shade and construct ceramic and fixed restorations.

This unit applies to work in dental technology.

The skills in this unit must be applied in accordance with Commonwealth and State/Territory legislation, Australian/New Zealand Standards and industry codes of practice.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

Elements define the essential outcomes

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

1. Take tooth shade

1.1 Read and interpret work order

1.2 Provide full details of the procedure to the patient or carer where appropriate

1.3 Obtain and document consent following ethical and legal requirements

1.4 Consider the accuracy of natural and artificial light

1.5 Position the patient correctly for the procedure

1.6 Consult patient regarding requirements and aesthetic outcomes

1.7 View mouth to gain overview of procedure.

ELEMENT**PERFORMANCE CRITERIA**

Elements define the essential outcomes

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

1.8 Select technique and prepare equipment and materials for tooth shade recording

1.9 Implement standard precautions to prevent the spread of infection

1.10 Instruct patient on participation during the procedure

1.11 Select tooth shade and consult patient regarding findings, and gain acceptance

1.12 Document the tooth shade

1.13 Discuss any follow-up procedures with the patient

2. Prepare sub-structures

2.1 Read and interpret the work order

2.2 Design and form substructure

2.3 Process the substructure

2.4 Assess substructure for accuracy and appropriateness

2.5 Prepare the bonding surface of the substructure if required for porcelain build up in accordance with the manufacturer's instructions

3. Select, apply and process ceramics

3.1 Select appropriate ceramic for substructure or restoration

3.2 Apply procedures to selected ceramic for substructures or restoration

3.3 Process the restoration in accordance with the manufacturer's instructions

4. Trim, shape and finish ceramic restorations

4.1 Trim the ceramic restoration to required anatomical shape

4.2 Finish the ceramic restoration to meet clinically accepted standards

4.3 Evaluate the quality of the finished restoration

4.4 Decontaminate the ceramic restoration according to infection control guidelines

4.5 Dry the ceramic restoration, place on model and place

ELEMENT

Elements define the essential outcomes

PERFORMANCE CRITERIA

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

in a sealed container for dispatch and record completed work order

Foundation Skills

The Foundation Skills describe those required skills (language, literacy, numeracy and employment skills) that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

No Equivalent Unit

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ced1390f-48d9-4ab0-bd50-b015e5485705>

Assessment Requirements for HLTDET011 Construct ceramic and fixed restorations

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Performance Evidence

The candidate must show evidence of the ability to complete tasks outlined in elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the job role. There must be evidence that the candidate has:

- read and correctly interpreted work order for the following 4 fixed restorations
- fabricated the following 4 ceramic restorations using standard precautions and safe work practices to a standard that is suitable for insertion in the mouth:
 - 1 maxillary or mandibular anterior crown
 - 1 maxillary or mandibular posterior crown
 - 1 anterior veneer
 - 1 posterior inlay
- critically evaluated the work produced to meet technical laboratory and patient requirements including:
 - shade of the ceramic matches the work order requirements
 - fit of the restoration is accurate
 - restoration is of an appropriate anatomical form, shape and surface finish
 - restoration is free of faults
 - restoration provides the correct occlusion and articulation
 - proximal contact areas are in contact with the contact areas of the adjacent teeth.

Knowledge Evidence

The candidate must be able to demonstrate essential knowledge required to effectively complete tasks outlined in elements and performance criteria of this unit, manage tasks and manage contingencies in the context of the work role. This includes knowledge of:

- Australian/New Zealand Standards, workplace health and safety (WHS) policies, Dental Board of Australia guidelines on infection control, Commonwealth and State/Territory legislation and organisation policies relating to dental laboratory work
- fundamental oral anatomy including:
 - dentition – arrangement of the teeth, naming and coding of teeth
 - structures of the oral cavity related to crown and bridge structures
 - teeth form and function
 - occlusion
- tooth preparation including basic cementation techniques of restorations
- dental ceramic restorations
- properties of different restoration and substructure materials
- ceramic bonding to substructures
- composition and properties of dental ceramics
- processing ceramic restorations
- causes of common faults during construction
- critical issues and techniques for taking tooth shades including:
 - effects of aging, tooth wear and staining on shade
 - colour
 - rationale and objectives for taking shades
- social, cultural and psychological factors affecting patient perception and acceptance of tooth shade
- factors which influence selection of tooth shades
- physics of light refraction including properties of materials used in aesthetic restoration

Assessment Conditions

Skills must have been demonstrated in a dental laboratory workplace or in a simulated dental laboratory environment that reflects workplace laboratory conditions. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - access to work order
 - Dental Board of Australia guidelines on infection control on which the candidate bases the planning process
 - laboratory safety manuals and procedures in line with relevant Commonwealth and State/Territory legislation
 - WHS policies on which the candidate bases the planning process.

Assessors must satisfy the Standards for Registered Training Organisations (RTOs) 2015/AQTF mandatory competency requirements for assessors.

Links

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