



Australian Government

Assessment Requirements for HLTDET009 Construct crown and bridge structures

Release: 1

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Modification History

Release	Comments
Release 1	<p>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.</p> <p>Merged HLTDT510C/HLTDT516C</p> <p>Significant changes to the elements and performance criteria. New evidence requirements for assessment including volume and frequency requirements.</p> <p>Removal of pre-requisites</p>

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:

- used standard precautions and safe work practices to design and construct 1 maxillary or mandibular anterior and posterior crown
- critically evaluated the 1 maxillary or mandibular anterior and posterior crown produced to meet technical laboratory and patient requirements.
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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
 - tooth preparation including basic cementation techniques of restorations
 - articulation and occlusion

- casting
- dental metallurgy
- factors responsible for casting defects
- finishing and polishing
- fundamentals of crown and bridge impressions including:
 - properties
 - types
 - techniques
 - compatibility with crown and bridge model materials
- properties of model and die materials including:
 - epoxy and polymer materials
 - gypsum materials
 - manipulation of crown and bridge model materials
- properties of crown and bridge materials:
 - casting and pressing materials
 - computer-aided design (CAD) and computer-aided manufacturing (CAM)
 - ceramic bonding materials
 - other relevant materials
- use of pattern materials including:
 - wax and plastic pattern techniques
 - emerging technology techniques
- investment and burnout including:
 - fundamental knowledge of investment materials
 - investing and expansion of the investment
 - burnout
 - waxing and spruing techniques.

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

Companion Volume implementation guides are found in VETNet -

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