Assessment Requirements for HLTDET017 Construct dental restorations and appliances using computer-aided manufacturing (CAM)

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Modification History

Not applicable.

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 four work orders
- used computer-aided manufacturing (CAM) technologies to construct four restorations or appliances, one of which must be a unit of crown and bridge work. The remaining three must be selected from two of the following categories:
    - prosthetics
    - chrome casting
    - orthodontics
    - splints
- applied standard infection control precautions and safe work practices to prepare the above four restorations or appliances
- critically evaluated the above four restorations or appliances constructed to meet technical laboratory and clinician requirements.

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 legislation and State/Territory legislation, and organisational policies relating to dental laboratory work
- requirements and organisational policies relating to dental laboratory work including:
    - use of standard infection control precautions
    - use of personal protective equipment
    - requirements for the use of computer-aided manufacturing (CAM) technologies
    - requirements for storage of digital designs
    - work health and safety
- benefits and limitations of computer-aided manufacturing (CAM) in digital dentistry

- commonly used types of computer-aided manufacturing (CAM) technologies used the in dental industry
- computer-aided manufacturing (CAM) processes and procedures as related to digital dentistry
- digital restoration and appliance file types
- types of digital restorations and appliances
- anatomical features of digital restorations, as relevant to the restoration or appliance
- properties of restoration or appliance material applicable to computer-aided manufacturing (CAM) and the applicability of each material
- surface finishing types and application
- fundamentals of oral anatomy:
    - dentition – arrangement of teeth, naming and coding of teeth
    - structures of the oral cavity – hard and soft palate, lateral and posterior borders of the oral cavity, tongue and floor of mouth
    - teeth form and function.

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:
    - access to a variety of work orders
    - digital restoration or appliance designs
    - computer-aided manufacturing (CAM) technologies commonly used within the dental industry
    - restoration or appliance materials
    - 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.

Assessors must satisfy the standards for registered training providers' requirements for assessors.

Links

Companion Volume Implementation Guide - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ced1390f-48d9-4ab0-bd50-b015e5485705

SkillsIQ