



Australian Government

**Assessment Requirements for HLTDEN007
Apply the principles of radiation biology
and protection in dental practice**

Release: 1

Assessment Requirements for HLTDEN007 Apply the principles of radiation biology and protection in dental practice

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. Minimal changes to the elements and performance criteria. New evidence requirements for assessment including volume and frequency requirements. Removal of pre-requisites Supersedes HLTDA410D

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:

- applied safe work practices during preparation of 3 patients for dental radiographic imaging procedures.
- demonstrated quality assurance to the production of 3 radiographs to consistent diagnostic standard, and applied techniques to minimise technical inaccuracies and errors.

Knowledge Evidence

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

- national and State/Territory legal and ethical requirements and considerations for dental assisting work and how these are applied in organisations/in individual practice including:
 - codes of practice and safety guide:
 - radiation protection in dentistry
 - safe use of radiation
 - duty of care
 - informed consent and statutory requirements of consent
 - practice standards – Dental Board of Australia guidelines on infection control
 - privacy, confidentiality and disclosure

- radiation user licence
- records management
- work role boundaries – responsibilities and limitations
- work health and safety
- the production, properties and interactions of X-rays including:
 - a basic knowledge of the interactions between atoms and X-rays
 - the sequence of events that result in the production of X-rays
 - hazards associated with X-rays including the mechanisms by which X-rays cause damage to human tissues
- biological effects and risks associated with X-rays including:
 - units of radiation measurement
 - immediate or acute effects
 - long term or cumulative effects
- radiographic appearance of anatomic landmarks, normal dentition and associated bony structures
- reasons for processing and technique inaccuracies and methods to minimise errors

Assessment Conditions

Skills must have been demonstrated in the dental clinic workplace with the addition of simulations and scenarios where the full range of contexts and situations cannot be provided in the workplace.

The requirement in the performance evidence to have applied safe work practices during preparation of 3 patients for dental radiographic imaging procedures must have been demonstrated using simulation prior to demonstration in the workplace and with members of the general public.

The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources including:
 - barrier protection equipment/materials for patient, operator and assistant
 - dental chair and unit
 - radiographs and/or sensors
 - waste disposal equipment
 - Dental Board of Australia guidelines on infection control
- modelling of industry operating conditions including access to real people for simulations and scenarios in dental assisting work.

Assessment must involve demonstration of tasks under the direction of the dental practitioner.

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

In addition, assessors must hold a minimum of 5 years clinical experience in dental assisting work.

Links

Companion Volume implementation guides are found in VETNet -

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