



Australian Government

HLTDEN023 Produce a prescribed dental radiographic image

Release: 2

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Modification History

Release	Comments
Release 2	Release 2 HLTDEN023 Produce a prescribed dental radiographic image supersedes and is equivalent to Release 1 HLTDEN023 Produce a prescribed dental radiographic image. Updated: Mapping details and minor corrections.
Release 1	HLTDEN023 Produce a prescribed dental radiographic image supersedes and is equivalent to HLTDEN009 Produce a prescribed dental radiographic image.

Application

This unit of competency describes the performance outcomes, skills and knowledge required to operate dental radiographic equipment and position the patient correctly to produce an intraoral or extraoral diagnostic radiographic image.

Where work relates to extraoral radiography this includes orthopantomogram (OPG) and may include lateral cephalograms for orthodontic radiographic work-ups and excludes cone beam images.

This unit applies to dental assisting work under the instruction and supervision of the dental practitioner.

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

No occupational licensing, certification or specific legislative requirements apply to this unit at the time of publication.

Dental radiography work must only be performed by a person with a radiation user licence granted by the relevant State/Territory regulatory authority under legislation.

Pre-requisite Unit

Nil

Competency Field

Dental Assisting

Unit Sector

Dental

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes

1. Position patient to obtain image.
2. Position dental radiographic receptor.
3. Operate radiographic imaging equipment safely to produce an intraoral or an extraoral image.
4. Process and provide quality assurance for the exposed dental image.

PERFORMANCE CRITERIA

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

- 1.1. Implement and maintain radiation safety measures for the patient, practitioner and others throughout the procedure.
- 1.2. Correctly position patient according to the radiographic receptor unit used.
- 1.3. Ensure that communication with patient can be maintained after positioning.
- 2.1. Select exposure variables on the dental radiographic unit for an intraoral or extraoral image according to manufacturers' instructions, procedure and patient requirements.
- 2.2. Select radiographic technique for an intraoral or extraoral image prescribed by dental practitioner for the oral structure under investigation.
- 2.3. Position receptor and adjust setting according to the prescribed request and patient's requirements.
- 2.4. Select and use locating devices or guides to apply the correct horizontal and vertical planes for the radiograph.
- 2.5. Use accessories when required, according to manufacturers' instructions.
- 3.1. Operate intraoral or extraoral radiographic equipment according to manufacturers' instructions and legislative requirements for the safe use of radiation.
- 3.2. Ensure the patient remains visible throughout the procedure to observe positioning and safety precautions and expose the X-ray.
- 3.3. Remove the exposed intraoral dental radiographic receptor carefully from the mouth.
- 3.4. Separate the receptor and barrier sleeve when required.
- 3.5. Confirm that digital image is displayed correctly.
- 3.6. Ensure the image is attached to the correct patient file.
- 4.1. Process and view the image correctly.
- 4.2. Identify and correct artefacts.
- 4.3. Identify and critique errors in imaging technique to optimise exposure times for each individual patient.

- 4.4. Store de-identified images according to organisational policies and procedures.

Foundation Skills

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

Unit Mapping Information

HLTDEN023 Produce a prescribed dental radiographic image supersedes and is equivalent to HLTDEN009 Produce a prescribed dental radiographic image.

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 HLTDEN023 Produce a prescribed dental radiographic image

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Performance Evidence

Evidence of the ability to complete tasks outlined in elements and performance criteria of this unit in the context of the job role, and:

- produce and critique 30 diagnostic standard dental radiographic de-identified images in a simulated workplace environment including:
 - applying safe work practices for dental radiography work:
 - following standard and additional precautions
 - operating a radiographic unit correctly
 - safely using radiation in dentistry
 - at least 20 of the above images must be intraoral radiographic de-identified images taken on a minimum of ten different people, demonstrating skills in periapical (PA) and bitewings (BW)
 - the remaining ten images must be extraoral radiographic de-identified images taken on a minimum of ten different people.

Knowledge Evidence

Demonstrated knowledge required to complete the tasks outlined in elements and performance criteria of this unit:

- national and State or Territory legal and ethical requirements and considerations for dental assisting work relevant to radiography, and how these are applied in organisations and in individual practice including:

- codes of practice and safety guides:
 - radiation protection in dentistry
 - safe use of radiation
- duty of care
- informed consent and statutory requirements of consent
- current Dental Board of Australia (DBA) and Australian Health Practitioner Regulation Agency (AHPRA) guidelines and practice standards
- privacy, confidentiality and disclosure
- radiation user licence
- records management
- rights and responsibilities of workers, employers and patients
- work role boundaries, including responsibilities and limitations
- work health and safety
- dental radiographic imaging techniques and the reasons for selection of each technique
- features, characteristics and range of movements of dental radiographic equipment associated with intraoral and extraoral radiographic images
- radiographic appearance of anatomic landmarks, normal dentition and associated bony structures for intraoral and extra-oral radiographs.
- radiographic appearance of dental anomalies and common oral pathological conditions
- sources for processing and technique inaccuracies and methods to minimise errors
- requirements for personal wearable radiation monitoring devices that measures radiation exposure levels including:
 - its significance
 - where on the body the device is to be worn
 - when and where they are required to be worn
 - when they need replacing.
- correct orientation for display of images
- procedures for labelling and storage of radiographic images in accordance with organisation policies.

Assessment Conditions

Skills must be demonstrated in a dental clinic workplace or in a simulated environment that reflects workplace conditions.

Production of intraoral and extraoral radiographic images must be compliant with current State or Territory radiation licensing requirements. Where licensing requirements preclude the operation of extraoral equipment by Dental Assistants, all performance evidence may be collected via production of intraoral radiographic images.

Assessment must ensure:

- access to suitable facilities, equipment and resources including:
 - barrier protection materials
 - dental chair and unit

- radiographic equipment suitable for taking intraoral or extra-oral radiographs
- practitioner, patient and assistant protective equipment
- processing equipment
- radiographs or sensors
- current Dental Board of Australia (DBA) and Australian Health Practitioner Regulation Agency (AHPRA) guidelines and practice standards
- modelling of industry operating conditions including access to people for simulations and scenarios in dental assisting work

Assessment must involve demonstration of tasks under verbal or written prescription from a dental practitioner.

Assessors must satisfy the Standards for Registered Training Organisations' requirements for assessors and hold a minimum of five years clinical dental experience and a current radiation user licence.

Links

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