



## Dental Nurses: Certificate in Dental Radiography

### Training in Dental Radiography Nursing: Intended Learning Outcomes

The following syllabus is designed to provide Dental Nurses with the educational experience, including the knowledge, critical understanding, intellectual skills, practical skills and personal attitude to enable them to provide effective and safe radiography for dental patients.

	<i>On successful completion of the programme, dental nurses should be able to:</i>	Teaching and Learning method(s)	Assessment method(s)
<b>Knowledge and critical understanding</b>	Demonstrate an understanding of the role of radiography in dental practice Understand the scope of radiographic techniques and best practice in their use Demonstrate the knowledge to practice effective dental radiography Understand the importance of complying with contemporary guidance relating to the environment, facilities and equipment required for dental radiography Demonstrate a critical understanding of the issues involved in the scientific basis of dental radiography	CBL SDL ST	FA ROC
<b>Intellectual skills</b>	Understand the limitations, benefits and risks of dental radiography Recognise own limitations, reflect on experiences and appreciate the need for continuing professional development	CBL SDL ST	FA ROC
<b>Practical skills</b>	Practice effective and risk managed dental radiography Remain calm, decisive and purposeful whilst managing and handling difficulties or complications	ACI CA CBL SDL ST	FA ROC
<b>Personal attitude</b>	Empathise with patients and demonstrate the ability to communicate effectively with patients, parents, carers and colleagues	CA CBL SDL ST	FA ROC

**Key: Teaching and Learning methods**

ACI= Audit/Critical Incident Analysis, CA = Clinical Attachment, CBL= Case-Based Learning, SDL=Self-Directed Learning, ST=Structured Teaching

**Assessment methods**

FA= Formal Assessment, ROC= Record of Competence Incorporating: MSF = Multi-Source Feedback, PDP = Personal Development Portfolio, WBA = Workplace-Based Assessment

## GENERAL PROFESSIONAL CONTENT

### 1 MAINTAINING GOOD CLINICAL PRACTICE

Each learning outcome should be prefaced by: ‘On completion of training, the radiography dental nurse.....’

Subject	Knowledge <i>.....should be able to describe:</i>	Skills <i>.....should be able to:</i>	Attitudes and Behaviours <i>.....should:</i>	Teaching and Learning method(s)	Assessment method(s)
<b>1.1 Professional approach</b>	1.1.1 the role of an effective dental nurse who holds the certificate in dental radiography	1.1.2 take diagnostic intra-oral and extra-oral radiographs that are rated <u>“Acceptable” on the A&amp;N rating scale</u>	1.1.3 behave in a professional manner	CBL	FA ROC
<b>1.2 Life-long learning</b>	1.2.1 the requirements for continuing professional development	1.2.2 recognise and take advantage of learning opportunities and reflect on them  1.2.3 maintain a personal development portfolio  1.2.4 monitor own performance through audit and feedback	1.2.5 comply with General Dental Council requirements for revalidation	CBL SDL ST	FA ROC
<b>1.3 Evidence</b>	1.3.1 the principles of evidence-based practice	1.3.2 practically apply evidence-based best practice	1.3.3 use evidence in support of patient care and to defend decisions taken	ST	ROC
<b>1.4 Written records</b>	1.4.1 the principles and guidelines for good clinical note keeping  1.4.2 the reasons for confidentiality	1.4.3 communicate effectively through accurate written records  1.4.4 apply the principles of confidentiality in the context of written records	1.4.5 take account of confidentiality requirements and legal requirements relating to written, electronic and digital records and their transport and storage	CBL ST	ROC

Subject	Knowledge <i>.....should be able to describe:</i>	Skills <i>.....should be able to:</i>	Attitudes and Behaviours <i>.....should:</i>	Teaching and Learning method(s)	Assessment method(s)
<b>1.5 Use of information technology</b>	1.5.1 the principles of retrieval and utilisation of data stored in clinical systems	1.5.2 apply the principles of confidentiality in the context of information technology 1.5.3 save, store and archive data securely 1.5.4 retrieve and transfer patient data	1.5.5 take account of the legal aspects relating to holding electronic and digital records 1.5.6 demonstrate a positive and proactive attitude to new technology	ACI ST	ROC
<b>1.6 Organisational framework for clinical governance and its application in practice</b>	1.6.1 the elements of clinical governance and the need for valid consent 1.6.2 the principles of clinical governance, in particular related to infection control	1.6.3 actively participate in clinical governance 1.6.4 participate in audit 1.6.5 report serious untoward incidents	1.6.6 recognise the importance of teamwork in implementing a clinical governance framework 1.6.7 recognise and take account of the learning from serious untoward incidents	ACI SDL ST	ROC
<b>1.7 Risk assessment and risk management</b>	1.7.1 the principles of risk assessment	1.7.2 carry out risk assessments 1.7.3 apply relevant procedures 1.7.4 monitor action plans to obviate further risk	1.7.5 recognise the value of risk assessments	ACI CBL	ROC
<b>1.8 Audit (general)</b>	1.8.1 the principles of internal and external quality assurance 1.8.2 the audit process	1.8.3 have involvement in the completion of audit projects 1.8.4 demonstrate improvement as the result of audit	1.8.5 recognise the benefit of audit to patient care and individual performance	ACI ST	ROC
<b>1.9 Guidelines</b>	1.9.1 the content of guidelines applicable to dental radiography	1.9.2 apply guidelines applicable to dental radiography	1.9.3 show regard for individual patient needs when utilising guidelines	ACI CBL ST	ROC

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<b>1.10 Patient Safety</b>	1.10.1 the role of organisations charged with ensuring patient safety	1.10.2 communicate the concept of “risk” with respect to ionising radiation to the patient	1.10.3 show regard for patient safety	CBL ST	ROC
<b>1.11 Relevance of outside bodies</b>	1.11.1 the role of: <ul style="list-style-type: none"> <li>• General Dental Council</li> <li>• UK legislation</li> <li>• Department of Health</li> <li>• National Examining Board for Dental</li> <li>• Nurses</li> <li>• Royal Colleges</li> <li>• specialist societies</li> <li>• defence societies</li> <li>• patient advisory groups</li> </ul>	1.11.2 communicate with and involve these bodies where or when appropriate	1.11.3 demonstrate acceptance of professional regulation  1.11.4 share best practice  1.11.5 participate in peer review	SDL ST	ROC

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## 2. GENERAL RADIOGRAPHY

### 2.1 RADIATION PHYSICS

Each learning outcome should be prefaced by: 'On completion of training, the radiography dental nurse.....'

Subject	Knowledge <i>.....should be able to describe:</i>	Intellectual (I) and Practical (P)Skills <i>.....should be able to:</i>	Attitudes and Behaviours <i>.....should:</i>	Teaching and Learning method(s)	Assessment method(s)
2.1 Radiation (X-ray) physics	2.1.1 Electromagnetic spectrum	2.1.2 Understand the electromagnetic spectrum (I) 2.1.3 Discuss the structure of atoms (I)	Maintain professional knowledge (See 1.2)	SDL, ST	FA
	2.1.4 Background radiation – natural and man-made	2.1.5 Understand sources of natural and artificial radiation (I)	Continuously review personal knowledge (See 1.2)	DL, ST	FA
	2.1.6 Production of X-rays, relationship of energy, frequency and wavelength	2.1.7 Discuss the production of x-rays (I) 2.1.8 Discuss the structure of atoms (I) 2.1.9 Differentiate between characteristic and continuous spectrum(I)	Reflect on personal knowledge and identify and understand any limits as well as strengths (See 1.2)	SDL, ST	FA
	2.1.10 Properties of radiation	2.1.11 Discuss the properties of x-rays (I)	Continuously review personal knowledge (See 1.2)		
	2.1.12 Attenuation of ionising radiation	2.1.13 Understand different interactions that x-rays have with matter (I)	Continuously review personal knowledge (See 1.2)		
	2.1.14 Factors affecting attenuation	2.1.15 Be aware of Compton and Photoelectric effect and be able to differentiate between the two (I)	Continuously review personal knowledge (See 1.2)		

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Subject	Knowledge	Intellectual (I) and Practical (P)Skills	Attitudes and Behaviours	Teaching and Learning method(s)	Assessment method(s)
	<i>.....should be able to describe:</i>	<i>.....should be able to:</i>	<i>.....should:</i>		
<b>2.1 Radiation (X-ray) physics (Cont'd)</b>	2.1.16 Scattering and absorption	2.1.17 Understand different interactions that x-rays have with matter (I)	Continuously review personal knowledge (See 1.2)	SDL, ST	FA
	2.1.18 Biological effects of radiation	2.1.19 Discuss in depth, indirect and direct damage (I)	Continuously review personal knowledge (See 1.2)		
	2.1.20 Risks/benefits of radiation	2.1.21 Explain options including risks and benefits of X-rays to patient	Continuously review personal knowledge (See 1.2)		
	2.1.22 Dose optimisation	2.1.23 Understand the importance of stochastic effects in dental radiography (I)	2.1.24 Put patients' interests first (See 1.10)		
	2.1.25 Dosimetry – absorbed dose, dose equivalent, effective dose and their units	2.1.26 Be aware of other effects of radiation (I) 2.1.27 Identify radiosensitive tissues and understand potential radiation effects on the younger patient (I) 2.1.28 Be aware of the risk of fatal malignancy from varying dental radiographs and be able to equate these risks to the lay person (I) 2.1.29 Understand and implement the ALARP principle (I) (P)	2.1.30 Recognise and promote patients' responsibility for making decisions about their bodies, their priorities and their care 2.1.31 Communicate effectively with patients regarding the risks of exposure to X-rays 2.1.32 Treat patients fairly and in line with the law (See 1.11)		

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	<i>.....should be able to describe:</i>	<i>.....should be able to:</i>	<i>.....should:</i>		
2.1 Radiation (X-ray) physics (Cont'd)	2.1.33 Factors affecting radiation dose	2.1.34 Have a basic understanding of radiation dose, radiation absorbed dose, equivalent absorbed dose, effective absorbed dose and collective absorbed dose (I)	Reflect on personal knowledge and identify and understand any limits as well as strengths (See 1.2)	SDL, ST	FA
	2.1.35 Image quality versus radiation dose	2.1.36 Discuss in detail, ways in which equipment, film choice, variable factors and training have an influence of reducing patient and staff dose (I) 2.1.37 Consider variations in kV, mA and exposure time in respect to image quality and patient and staff dose (I) (P)	Find out about current best practice in the field in which you work (See 1.9) Continuously review personal knowledge (See 1.2)		

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## 2.2 RADIATION PROTECTION

Each learning outcome should be prefaced by: 'On completion of training, the radiography dental nurse .....

Subject	Knowledge <i>.....should be able to describe:</i>	Intellectual (I) and Practical (P)Skills <i>.....should be able to:</i>	Attitudes and Behaviours <i>.....should:</i>	Teaching and Learning method(s)	Assessment method(s)
2.2 Radiation protection	2.2.1. General radiation protection including the IRCP principles of radiation protection	2.2.2 Summarise the guidance given by the <u>Faculty of General Dental Practitioners 2020</u> on the safety of x-ray equipment – IRR 2017 (I) (P)	2.2.3 Apply evidence-based and reliable guidance in published literature and current UK legislation (See 1.3 & 1.11)		
	2.2.4 Use of radiation protection devices - patient and personal	2.2.5 Understand when radiation monitoring devices are to be worn (I) (P)	2.2.6 Work within recommended working directives (See 1.9)	SDL, ST	FA, ROC
	2.2.7 Procedures for incidents involving over exposure to ionising radiation	2.2.8 Know the correct pathway for reporting any adverse incidents (I) (P)	2.2.9 Get advice from appropriate colleagues as required	SDL, ST, CA	FA, ROC
	2.2.10 Radiation protection for pregnancy and potential pregnancy, infants and children	2.2.11 Understand dose constraints and apply them appropriately (I) (P)	Follow protocols applicable to pregnant women and children (see 2.2.10)	SDL, ST	FA, ROC
	2.2.12 Justification of the individual exposure including selection criteria	2.2.13 Understand the principle of justification 2.2.14 Understand selection criteria and the clinical/practical application in radiography (I) (P)	2.2.15 Apply evidence-based and reliable guidance in the <u>FGDP(UK) Selection Criteria 2018</u> (See 1.3)	SDL, ST, CBL SDL, ST, CBL	FA, ROC
	2.2.16 Patient identification and consent - identification and consent	2.2.17 Realise the importance of correct patient identification and obtain informed and valid consent (I) (P)	2.2.18 Give the correct patient clear information to help them to make a decision about their care (See 1.6)	SDL, ST, CBL	FA, ROC



## 2.2 RADIATION PROTECTION

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2.2 Radiation Protection (Cont'd)	2.2.19 Use of existing appropriate radiological information	2.2.20 Understand the dose reduction achieved by sourcing previous radiographs and obtain where practicable (I) (P)	2.2.21 Give patients any information in a way they can understand, so that they make informed decisions about their care 2.2.22 Make sure that patients have easy access to their records	SDL, ST, CBL	FA, ROC
	2.2.23 Alternative techniques	2.2.24 Recognise the need for and use of alternatives techniques (I) (P) 2.2.25 Recognise their own limitations and ask for help as required (I) (P)	2.2.26 Find out about guidance notes and regulations which affect their work and follow them (See 1.9)		
	2.2.27 Clinical evaluation of outcome	2.2.28 Apply the <u>Faculty of General Dental Practitioners 2020</u> guidance notes for dental practitioners on the safe use of equipment (I) (P)	2.2.29 Find out about laws and regulations which affect their work and follow them (See 1.11)	SDL, ST, ACI	FA, ROC
	2.2.30 Medico-legal issues	2.2.31 Realise that the legislation in force is legally binding and apply to their radiographic practice (I) (P)		SDL, ST, CA	FA, ROC
	2.2.32 Regulations	2.2.33 Discuss and apply <u>IR(ME) 2017</u> and <u>IRR 2017</u> legislation (I) (P)	2.2.34 Consult with the RPS as required	SDL, ST	FA
	2.2.35 Local rules and procedures	2.2.36 Adhere to local rules, policies and procedures applicable to area of work (I) (P)		SDL, ST, CBL	FA, ROC

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2.2 Radiation protection (Cont'd)	2.2.37 Individual responsibilities relating to medical exposures	2.2.38 Have a working knowledge of justification, optimisation and dose limitation (I) (P)	2.2.39 Treat patients fairly and in line with current legislation	SDL, ST, CBL	FA, ROC
	2.2.40 Responsibility for radiation safety	2.2.41 Apply the ALARP principle and consult with the RPS and RPA as necessary (I) (P)	Consult with the RPS and RPA as required (see 2.2.41)		
	2.2.42 Routine inspection and testing of equipment	2.2.43 Be aware of equipment servicing and testing schedules (I) (P)		2.2.46 Consult with the relevant personnel and agencies	SDL, ST
	2.2.44 Notification of faults and Health Department hazard warnings	2.2.45 Report equipment faults and procedural error correctly (I) (P)	2.2.46 Consult with the relevant personnel and agencies		
	2.2.47 Clinical audit	2.2.48 Understand the process of regular clinical audit and the need for quality assurance (I) (P)	2.2.49 Co-operate with other healthcare colleagues in the interests of patients (See 1.8)		

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## 2.3 APPARATUS AND EQUIPMENT

Each learning outcome should be prefaced by: 'On completion of training, the radiography dental nurse.....'

Subject	Knowledge	Intellectual (I) and Practical (P)Skills	Attitudes and Behaviours	Teaching and Learning method(s)	Assessment method(s)
	<i>.....should be able to describe:</i>	<i>.....should be able to:</i>	<i>.....should:</i>		
<b>2.3 Apparatus and equipment</b>	2.3.1. X-ray equipment - Intra-oral and extra-oral	2.3.2 Understand a schematic representation of X-ray generating equipment (I)	Find out about current best practice in the fields in which you work (See 1.11)	SDL, ST, CBL	FA
	2.3.3 X-ray tube – cathode, anode, focal spot size and vacuum	2.3.4 Know the components and functions of an X-ray tube (I)	Continuously review personal knowledge	SDL, ST	FA, ROC
	2.3.5 Heat production and how it is dispersed	2.3.6 Understand the measures employed to dissipate heat generated during the production of X-rays (I)	Reflect on personal knowledge and identify and understand any limits as well as strengths	SDL, ST	FA
	2.3.7 Basic components of the dental X-ray set	2.3.8 Understand the electrical circuitry used in the generation of X-rays (I)	Continuously review personal knowledge		
	2.3.9 Timers	2.3.10 Identify and use collimation appreciating that rectangular is best practice (I) (P)	Find out about current best practice in the fields in which you work		
	2.3.11 Applied potential (kV) tube current 2.3.12 (mA) and exposure setting (mAs) – how change affects X-ray quality and quantity	2.3.13 Understand the effect of time selection on patient dose (I) (P) 2.3.14 Understand the effects of changes in kV and current on X-ray generation and hence patient dose (I) (P)	Find out about current best practice in the fields in which you work	SDL, ST	FA FA, ROC

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## 2.4 FILMS AND PROCESSING

Each learning outcome should be prefaced by: 'On completion of training, the radiography dental nurse.....'

Subject	Knowledge <i>.....should be able to describe:</i>	Intellectual (I) and Practical (P)Skills <i>.....should be able to:</i>	Attitudes and Behaviours <i>.....should:</i>	Teaching and Learning method(s)	Assessment method(s)
2.4 Films and processing	2.4.1 Film types <ul style="list-style-type: none"> <li>• direct action</li> <li>• and indirect action/screen film</li> </ul>	2.4.2 Identify indirect and direct-action films, their usage, structure and production of latent image (I) (P)	Develop and update your knowledge and skills throughout your working life	SDL, ST, CBL	FA, ROC
	2.4.3 Intensifying screens	2.4.4 Implement the care and maintenance of intensifying screens and cassettes (I) (P)	Find out about current best practice in the fields in which you work	SDL, ST	FA, ROC
	2.4.5 Black and white final image production – effect of exposure	2.4.6 Understand the physics and chemistry of image production using conventional radiographic film (I) (P)	Continuously review personal knowledge		
	2.4.7 Emphasis on processing – chemistry, wet and automatic processing, and film faults	2.4.8 Understand the chemistry of processing and factors that can influence the final image (I) (P)	Continuously review personal knowledge	SDL, ST	FA
	2.4.9 Darkroom – design and safelights	2.4.10 Recognise the requirements of a safe darkroom and the need for elimination of extraneous light (I) (P)	Find out about current best practice in the fields in which you work		

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## 2.5 DIGITAL IMAGING

Each learning outcome should be prefaced by: 'On completion of training, the radiography dental nurse.....'

Subject	Knowledge <i>.....should be able to describe:</i>	Intellectual (I) and Practical (P)Skills <i>.....should be able to:</i>	Attitudes and Behaviours <i>.....should:</i>	Teaching and Learning method(s)	Assessment method(s)
2.5 Digital imaging	2.5.1 Principles of digital image production	2.5.2 Understand the basic physics involved of digital image production (I)	Continuously review personal knowledge	SDL, ST, CBL	FA, ROC
	2.5.3 Intra-oral and extra-oral systems using <ul style="list-style-type: none"> <li>• solid state detectors</li> <li>• photostimulable phosphor plates</li> </ul>	2.5.4 Understand the merits and principles of each digital imaging system and apply them appropriately (I) (P)	Develop and update your knowledge and skills throughout your working life	SDL, ST	FA, ROC
	2.5.5 Digital image faults and Quality Assurance	2.5.6 Recognise digital imaging faults and understand why they have occurred and know how to rectify them (I) (P)	Find out about current best practice in the fields in which you work		
	2.5.7 Data storage and retrieval and data protection	2.5.8 Adhere to the <u>Data Protection Act 2018</u> and Freedom of Information Act 2000 2.5.9 Recognise the need for adequate storage and retrieval systems (I) (P)	2.5.10 Prevent information from being accidentally revealed and prevent unauthorised access by keeping information secure at all times (See 1.5) Make sure that patients have easy access to their records (See 2.2.22)	SDL, ST	FA

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## 2.6 PRINCIPLES OF IMAGING

Each learning outcome should be prefaced by: 'On completion of training, the radiography dental nurse.....'

Subject	Knowledge <i>.....should be able to describe:</i>	Intellectual (I) and Practical (P)Skills <i>.....should be able to:</i>	Attitudes and Behaviours <i>.....should:</i>	Teaching and Learning method(s)	Assessment method(s)
2.6 Principles of imaging	2.6.1 Geometric requirements for image production	2.6.2 Understand the requirements to take an "A" rated radiographic image (I) (P)	Find out about current best practice in the fields in which you work (See 1.3)	SDL, ST	FA
	2.6.3 Importance of quality of image – effects of distortion	2.6.4 Identify distortion on radiographs and realise why they have occurred, limiting it as far as reasonably practicable (I) (P)	Find out about current best practice in the fields in which you work		
	2.6.5 Use and limitation of radiography as a diagnostic aid	2.6.6 Recognise the limitation of a radiograph as a diagnostic aid (I) (P) 2.6.7 Use the appropriate image receptors and dose reductive methods to maximise the diagnostic yield (I) (P)	Find out about current best practice in the fields in which you work	SDL, ST, ACI SDL, ST	FA

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## 2.7 FILM HANDLING

Each learning outcome should be prefaced by: 'On completion of training, the radiography dental nurse.....'

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2.7 Film handling	2.7.1 Storage of film – protection from heat, damp and radiation	2.7.2 Securely and safely store image receptors to maintain their integrity (I) (P)	Find out about current best practice in the fields in which you work (See 1.8)	SDL, ST, CBL	FA, ROC
	2.7.3 Conventional film processing	2.7.4 Correctly process conventional film (I) (P)	Find out about current best practice in the fields in which you work (See 1.8)		
	2.7.5 How to identify film faults	2.7.6 Recognise film faults and know how to rectify them (I) (P)	Find out about current best practice in the fields in which you work (See 1.8)		
	2.7.7 Correct filing and retrieval	2.7.8 Correctly file and retrieve patient radiographs (I) (P)	Make and keep accurate and complete contemporaneous patient records (See 1.5)		
	2.7.9 Information exchange	2.7.10 Exchange information securely maintaining patients' confidentiality (I) (P)	2.7.11 Refer patients for further treatment when it is necessary to do so or if the patient asks	SDL, ST	FA, ROC

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## 2.8 DIGITAL IMAGING –PRACTICAL INSTRUCTION

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2.8 Digital imaging-practical instruction	2.8.1 Care of digital imaging receptors	2.8.2 Correctly store and maintain digital receptors (I) (P)	Find out about current best practice in the fields in which you work	SDL, ST, CBL	FA, ROC
	2.8.3 Identification of digital image faults	2.8.4 Recognise faults and know how to rectify them (I) (P)	Reflect on personal knowledge and identify and understand any limits as well as strengths		
	2.8.5 Image storage and data protection	2.8.6 Correctly file and retrieve patient radiographs (I) (P)  2.8.7 Exchange information securely maintaining patients’ confidentiality (I) (P)	Prevent information from being accidentally revealed and prevent unauthorised access by keeping information secure at all times (See 1.5)	SDL, ST, CBL SDL, ST	FA, ROC

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## 2.9 INTRA-ORAL TECHNIQUES

Each learning outcome should be prefaced by: 'On completion of training, the radiography dental nurse.....'

Subject	Knowledge <i>.....should be able to describe:</i>	Intellectual (I) and Practical (P)Skills <i>.....should be able to:</i>	Attitudes and Behaviours <i>.....should:</i>	Teaching and Learning method(s)	Assessment method(s)
2.9 Intra-oral techniques	2.9.1. Bitewings	2.9.2 Ideally take <u>an A rated</u> bitewing view tailored to the needs of the individual patient using the recommended technique (I) (P)	Find out about current best practice in the fields in which you work	SDL, ST, CBL	FA, ROC
	2.9.3 Periapical views <ul style="list-style-type: none"> <li>• paralleling technique</li> <li>• bisected angle technique</li> </ul>	2.9.4 Ideally take <u>an A rated</u> paralleling and bisected angle periapical view tailored to the needs of the individual patient using a recommended technique (I) (P)	Find out about current best practice in the fields in which you work		
	2.9.5 Image receptor holders and secondary collimation	2.9.6 Understand the principles of secondary collimation and apply them in the clinical setting (I) (P) 2.9.7 Understand the benefits of using film holders (I) (P)	Find out about current best practice in the fields in which you work	SDL, ST, CBL SDL, ST	FA, ROC
	2.9.8 Endodontic radiography	2.9.9 Ideally take <u>an A rated</u> radiograph using a recommended intra-oral technique (I) (P)	Find out about current best practice in the fields in which you work	SDL, ST	FA
	2.9.10 Occlusal radiography	2.9.11 Ideally take <u>an A rated</u> occlusal view tailored to the needs of the individual patient using a recommended technique (I) (P)	Find out about current best practice in the fields in which you work	SDL, ST, CBL	FA, ROC

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## 2.10 EXTRA-ORAL TECHNIQUES

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Subject	Knowledge <i>.....should be able to describe:</i>	Intellectual (I) and Practical (P)Skills <i>.....should be able to:</i>	Attitudes and Behaviours <i>.....should:</i>	Teaching and Learning method(s)	Assessment method(s)
2.10 Extra-oral techniques	2.10.1 Oblique lateral view of the jaws	2.10.2 Ideally take <u>an A rated</u> oblique lateral view tailored to the needs of the individual patient using a recommended technique (I) (P)	Find out about current best practice in the fields in which you work	SDL, ST, CBL	FA, ROC
	2.10.3 Panoramic radiography (dental panoramic tomography)	2.10.4 Ideally take <u>an A rated</u> panoramic view tailored to the needs of the individual patient using a recommended technique (I) (P)	Find out about current best practice in the fields in which you work		
	2.10.5 Cephalometry	2.10.6 Ideally take <u>an A rated</u> cephalometric view tailored to the needs of the individual patient using a recommended technique (I) (P)	Find out about current best practice in the fields in which you work		

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## 2.11 QUALITY ASSURANCE

Each learning outcome should be prefaced by: 'On completion of training, the radiography dental nurse.....'

Subject	Knowledge	Intellectual (I) and Practical (P)Skills	Attitudes and Behaviours	Teaching and Learning method(s)	Assessment method(s)
	<i>.....should be able to describe:</i>	<i>.....should be able to:</i>	<i>.....should:</i>		
2.11 Quality assurance	2.11.1 Quality assurance and quality control	2.11.2 Participate in quality assurance programmes, if requested lead a quality assurance programme (I) (P)	Find out about current best practice in the fields in which you work (See 1.1.8)	SDL, ST, CBL, ACI	FA, ROC
	2.11.3 Use of the three-point quality rating scale for radiographs	2.11.4 Recognise <u>Acceptable and Not acceptable (A&amp;N) film and the relevance of each</u> (I) (P) 2.11.5 Participate in audits associated with the <u>two-point quality rating scale</u> for radiographs (I) (P)	Find out about current best practice in the fields in which you work		

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## 2.12 CARE OF PATIENTS

Each learning outcome should be prefaced by: 'On completion of training, the radiography dental nurse.....'

Subject	Knowledge <i>.....should be able to describe:</i>	Intellectual (I) and Practical (P)Skills <i>.....should be able to:</i>	Attitudes and Behaviours <i>.....should:</i>	Teaching and Learning method(s)	Assessment method(s)
2.12 Care of patients	2.12.1 Care of children	2.12.2 Adapt, manage and take X-rays for paediatric patients (I) (P)	Find out about current best practice in the fields in which you work	SDL, ST	FA, ROC
	2.12.3 Care of special care patients	2.12.4 Adapt, manage and take X-rays for special patients (I) (P)	Find out about current best practice in the fields in which you work		
	2.12.5 Infection control	2.12.6 Employ infection control techniques in line with HTM01-05 (I) (P)	Find out about current best practice in the fields in which you work (See 1.6)  Find out about laws and regulations which affect your work and follow them		
	2.12.7 Communication of risks to patients	2.12.8 Suitably explain the risks to reflect the maturity and understanding of the patient (I) (P)	Give patients any information in a way they can understand, so that they make informed decisions about their care		

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## 2.13 PRINCIPLES AND PRACTICE OF INTERPRETATION

Each learning outcome should be prefaced by: 'On completion of training, the radiography dental nurse.....'

Subject	Knowledge <i>.....should be able to describe:</i>	Intellectual (I) and Practical (P)Skills <i>.....should be able to:</i>	Attitudes and Behaviours <i>.....should:</i>	Teaching and Learning method(s)	Assessment method(s)
2.13 Principles and practice of interpretation	2.13.1 Viewing conditions	2.13.2 Optimally view image receptors (I) (P)	Find out about current best practice in the fields in which you work	SDL, ST, ACI	FA, ROC
	2.13.3 Nature and limitations of the radiographic image - plain film	2.13.4 Recognise the nature and limitations of plain film (I) (P)	Continuously review personal knowledge		
	2.13.5 Critical assessment of radiographic quality	2.13.6 Able to critically assess the radiographic quality of images (I) (P)	Share your knowledge and skills with other team members in the interests of patients		

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## 2.14 FUNDAMENTALS OF RADIOLOGICAL ANATOMY

Each learning outcome should be prefaced by: 'On completion of training, the radiography dental nurse.....'

Subject	Knowledge	Intellectual (I) and Practical (P)Skills	Attitudes and Behaviours	Teaching and Learning method(s)	Assessment method(s)
	<i>.....should be able to describe:</i>	<i>.....should be able to:</i>	<i>.....should:</i>		
<b>2.14 Fundamentals of radiological anatomy</b>	2.14.1 Normal anatomy of teeth and jaws as seen on intra and extra-oral radiographs	2.14.2 Distinguish between normal and abnormal anatomy (I) (P)	Work within your knowledge, professional competence and physical abilities  Get advice from appropriate colleagues when required	SDL, ST	FA

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## 2.15 IDENTIFICATION OF COMMON DENTAL PATHOLOGY

Each learning outcome should be prefaced by: 'On completion of training, the radiography dental nurse.....'

Subject	Knowledge	Intellectual (I) and Practical (P)Skills	Attitudes and Behaviours	Teaching and Learning method(s)	Assessment method(s)
	<i>.....should be able to describe:</i>	<i>.....should be able to:</i>	<i>.....should:</i>		
2.15 Identification of common dental pathology	2.15.1 Caries	2.15.2 Recognise carious lesions on radiographs (I) (P)	Work within your knowledge, professional competence and physical abilities	SDL, ST	FA
	2.12.3 Periapical disease	2.15.4 Recognise periapical disease on radiographs (I) (P)	Get advice from appropriate colleagues when required		
	2.15.5 Periodontal disease	2.15.6 Recognise periodontal disease on radiographs (I) (P)	Get advice from appropriate colleagues when required		

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**Version Control Table:**

<b>Version Number</b>	<b>Purpose/Change</b>	<b>Author</b>	<b>Date</b>
V1.1	Updating numbering of criteria throughout. No content changes.	Qualification Development Manager	30 September 2021
V1.2	Updating references legislation (IRR & IR(ME) and Data Protection Act, and changes to quality assurance ratings, please see <u>underlined</u> text within the syllabus for details	Qualification Development Manager	18 July 2022