

# SYLLABUS: CERTIFICATE IN DENTAL IMPLANT NURSING

## Training in Dental Implant 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 care for dental patients.



National  
Examining  
Board for  
Dental Nurses

	<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 implant techniques in dentistry. Understand the range of control of pain and anxiety techniques. Understand the importance and influence that the patients' general health may have on the use of dental implants. Demonstrate the knowledge to assist with effective dental implantology. Understand the importance of complying with contemporary guidance relating to the environment, facilities and equipment. Demonstrate a critical understanding of the issues involved in the scientific basis of dental implants.	CBL SDL ST	FA MSF PDP WBA
<b>Intellectual skills</b>	Understand limitations, benefits and risks of dental implants techniques. Recognise own limitations, reflect on experiences and appreciate the need for continuing education. Explain the concept of multidisciplinary care of patients and teamwork.	CBL SDL ST	FA MSF PDP WBA
<b>Practical skills</b>	Assist in the assessment of patients who require dental implants. Practice effective and safe dental implant nursing. Remain calm, decisive and purposeful whilst handling difficulties or complications.	ACI CA CBL SDL ST	FA MSF PDP WBA
<b>Personal attitude</b>	Empathise with patients and demonstrate the ability to communicate effectively with patients, parents, carers and colleagues.	CA CBL SDL ST	MSF PDP WBA

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# Dental Implant Nursing

## 1. GENERAL PROFESSIONAL CONTENT

### 1.1 MAINTAINING GOOD CLINICAL PRACTICE

Each learning outcome should be prefaced by: 'On completion of training the dental implant 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>1.1.1 Professional approach</b>	the requirements of an effective dental implant nurse  the different models of working as part of a team	assist with the provision of dental implants	behave in a professional manner	CBL	ROC
<b>1.1.2 Life-long learning</b>	the requirements for continuing professional development	recognise and take advantage of learning opportunities for all members of the team providing dental implants  maintain a personal development portfolio  monitor own performance through team audit and feedback	comply with General Dental Council requirements for revalidation	CBL SDL ST	ROC
<b>1.1.3 Evidence</b>	the principles of evidence-based practice	apply within the team evidence and recommendations of best practice  provide constructive feedback within the dental implant team	use evidence in support of patient care and to defend decisions taken	ST	ROC
<b>1.1.4 Written records</b>	the principles and guidelines for good clinical note keeping  the reasons for confidentiality	communicate effectively through written records  apply the principles of confidentiality in the context of written records	take account of confidentiality requirements and legal requirements relating to written, electronic and digital records, and their transport and storage	CBL ST	ROC

<b>Subject</b>	<b>Knowledge</b> <i>.....should be able to describe:</i>	<b>Skills</b> <i>.....should be able to:</i>	<b>Attitudes and Behaviours</b> <i>.....should:</i>	<b>Teaching and Learning method(s)</b>	<b>Assessment method(s)</b>
<b>1.1.5 Use of information technology</b>	the principles of retrieval and utilisation of data recorded in clinical systems	apply the principles of confidentiality in the context of information technology	take account of the legal aspects relating to holding electronic and digital records  demonstrate a positive and proactive attitude to new technology	ACI ST	ROC
<b>1.1.6 Organisational framework for clinical governance and its application in practice</b>	the elements of clinical governance  the principles of clinical governance, in particular related to infection control	participate actively in clinical governance  participate in audit  report serious untoward incidents	recognise the importance of teamwork in implementing a clinical governance framework  recognise and take account of the learning from serious untoward incidents	ACI SDL ST	ROC
<b>1.1.7 Risk assessment and risk management</b>	the principles of risk assessment	carry out risk assessments  apply relevant procedures  monitor action plans to obviate further risk	recognise the value of risk assessments	ACI CBL	ROC
<b>1.1.8 Audit (general)</b>	the principles of internal and external quality assurance  the audit process	have involvement in the completion of audit projects  demonstrate improvement as the result of audit	recognise the benefit of audit to patient care and individual performance	ACI ST	ROC
<b>1.1.9 Guidelines</b>	the content of guidelines applicable to the practice and delivery of implants in dentistry	apply guidelines applicable to the practice and delivery of implants in dentistry	show regard for individual patient needs when utilising guidelines	ACI CBL ST	ROC
<b>1.1.10 Patient Safety</b>	the principles of basic life support  the management of medical emergencies in the dental surgery  the principles of management of fitness to practice cases  the role of organisations charged with ensuring patient safety	perform basic life support  participate in the management of medical emergencies in the dental surgery	show regard for patient safety  recognise the importance of team training in the management of medical emergencies in the dental surgery	CBL ST	ROC

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<b>1.1.11 Relevance of outside bodies</b>	the role of: <ul style="list-style-type: none"> <li>- General Dental Council</li> <li>- Department of Health</li> <li>- National Examining Board for Dental Nurses</li> <li>- Royal Colleges</li> <li>- specialist societies</li> <li>- defence societies</li> <li>- patient advisory groups</li> </ul>	communicate with and involve these bodies in appropriate situations	demonstrate acceptance of professional regulation  share best practice  participate in peer review	SDL ST	ROC

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## 2. SUBJECT SPECIFIC CONTENT

### 2.1 SCIENCE OF ANATOMY AND PHYSIOLOGY

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

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<b>1.1 Oral and Facial Anatomy</b>	<p>the permanent tooth morphology, structure, function, and eruption dates</p> <p>the structure and function of the supporting structures of the teeth, the anatomy and function of the muscles of mastication</p> <p>the anatomy and function of the temporomandibular joint</p> <p>the basic structure and development of the mandible and maxilla and their nerve and vascular supply</p> <p>the anatomy of the maxillary antrum</p>	<p>apply the knowledge to perform safe surgical assistance and have a clear understanding of the anatomical region that would be important in implant planning.</p>	<p>access and update information and retain knowledge of anatomy.</p>	<p>ST SDL</p>	<p>FA ROC</p>
<b>1.2 Oral and bone physiology</b>	<p>the physiology of osseointegration and associated soft tissues</p>	<p>use their knowledge the process of osseointegration to inform patients of the principle of implant dentistry.</p>		<p>ST SDL</p>	<p>FA ROC</p>

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## 2.2 ASSESSMENT AND PREPARATION OF PATIENTS FOR DENTAL IMPLANTS

Each learning outcome should be prefaced by: 'On completion of training the dental implant 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>2.2.1 Implant Treatment Planning</b>	<p>the process of initial assessment</p> <p>the need for a comprehensive medical and dental history</p> <p>implant treatment compared with alternative treatment options</p> <p>the financial implications including the costs / benefits in the primary / public sectors</p> <p>the risk factors associated with conventional and medically compromised patients</p> <p>modern dental imaging techniques</p> <p>the types of radiographs and their relevance to implant treatment</p> <p>the use of dental imaging techniques (including photography) and the production and use of surgical stents and diagnostic wax ups</p>	<p>mix appropriate impression materials assist with the loading of impression trays</p> <p>take accurate records during the assessment of patients for dental implants</p>	<p>respect the privacy and dignity of patients during assessment for dental implants</p> <p>understand the need for applying information governance when dealing with patient records</p> <p>be sympathetic to the needs of the spectrum of patients being assessed for dental implants</p>	<p>ST SBL</p>	<p>FA ROC</p>

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<b>2.2.2 Implant Treatment</b>	<p>the aims and indications of implant treatment</p> <p>the risks and benefits of implant treatment</p> <p>the contra-indications of implant treatment</p> <p>the surgical procedures for one and two stage implant placement</p> <p>the prosthetic procedures for one and two stage techniques for an implant retained restoration including crowns, bridges, and prostheses</p> <p>complications that could occur during treatment</p> <p>the temporisation procedures used during implant treatment</p> <p>the principles of immediate placement and immediate loading</p>	<p>explain to patients the underlying principles to implantology</p> <p>explain to patients multiple implant steps and procedures</p> <p>provide support to patients' pre and post-operative and give advice in an emergency</p>	<p>understands the importance of patients being fully informed about all aspects of dental implants</p>	<p>ST SDL CBL</p>	<p>FA ROC</p>
<b>2.2.3 Oral Health and Implant Therapy</b>	<p>the signs and symptoms of oral disease</p> <p>the aetiology and treatment of plaque, caries and periodontal disease</p> <p>the role of smoking and a knowledge of cessation methods</p> <p>the signs and symptoms of oral disease including peri-implantitis</p>	<p>give oral health instruction in relation to the postoperative care and management following implant placement</p>	<p>be able to adopt a sensitive approach when discussing patients oral and general health</p>	<p>ST CBL SDL</p>	<p>FA ROC</p>

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<b>2.2.4 Interdisciplinary Role</b>	<p>the roles of the members of the dental team in the construction of implant retained restorations</p> <p>the role of the dental team in the maintenance of the implant prosthesis</p> <p>the materials used in the laboratory related dental implants</p> <p>the construction, uses, and storage of laboratory casts</p> <p>the technical procedures used in the construction of a fixed or removable implant retained restoration</p>	<p>liase with other members of the dental implant team using a variety of communication methods</p> <p>assist in the completion of laboratory prescriptions</p> <p>correctly handle relevant materials and dental casts</p>	<p>understand the importance of maintaining communication with all members of the dental team</p>	<p>ST SDL CBL</p>	<p>FA ROC</p>

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## 2.3 PRACTICAL ASPECTS OF DENTAL IMPLANT NURSING

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

Subject	Knowledge	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>2.3.1</b> <b>The Role of Chairside and Surgical Support</b>	<p>the preparation of the clinical environment prior to a patient visit</p> <p>close support and 4-6 handed techniques during implant procedures</p> <p>the use of surgical suction and irrigation to maintain an effective operating field</p> <p>the requirements of a dental nurse assisting during a surgical implant procedure</p> <p>the requirements of a dental nurse assisting during a restorative implant procedure</p> <p>the requirements of a dental nurse assisting during an implant review visit</p> <p>the provision of patient care, support and monitoring during implant procedures</p> <p>provide pre and post-operative instructions to implant patients</p>	<p>prepare the clinical environment prior to a patient visit</p> <p>undertake close support and 4-6 handed techniques during implant procedures</p> <p>provide a supportive environment to allow a seamless surgical procedure and instil confidence in the patient in this demanding speciality.</p> <p>use surgical suction and irrigation to maintain an effective operating field</p> <p>assist during a surgical implant procedure</p> <p>assist during a restorative implant procedure</p> <p>assist during an implant review visit</p> <p>provide patient care, support and monitoring during implant procedures</p> <p>communicate effectively with other members of the interdisciplinary team</p> <p>provide pre and post-operative instructions to implant patients</p>	<p>understand the need for a supportive environment to allow a seamless surgical procedure and instil confidence in the patient in this demanding speciality</p> <p>understand the importance of effective communication between members of the dental implant team</p>	<p>SBL</p> <p>ST</p> <p>CBL</p>	<p>FA</p> <p>ROC</p>

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<b>2.3.2 Instrumentation, Equipment and Materials</b>	<p>the function and maintenance of implant instruments and equipment including the function and maintenance of aspirating equipment</p> <p>the principles of different implant designs</p> <p>the historic and likely future development of dental implants</p> <p>appropriate impression materials and techniques</p> <p>management of the stock in an implant environment</p>	<p>recognise and use of surgical instruments and materials in the placement of a dental implant</p> <p>recognise and usage of restorative instruments used in the placement and maintenance of an implant retained restoration</p> <p>make a selection of appropriate dental impression trays for implant procedures</p> <p>mix the different types of impression material and have an understanding of their handling characteristics</p>	<p>recognise the impact of failing to maintain instruments</p> <p>recognise the implications of incorrect handling of dental materials in relation to dental implants</p>	ACI ST SDL	FA ROC
<b>2.3.3 Advanced Surgical Procedures</b>	<p>hard tissue grafts</p> <p>soft tissue grafts</p> <p>different techniques and indications for sinus lifts</p> <p>reconstructive implant retained prostheses</p> <p>different techniques and indications for nerve repositioning procedures</p> <p>different types of bone substitutes and membranes used</p> <p>sources of alloplastic materials</p>	<p>give support and assistance during these advanced procedures</p> <p>deliver clear post-operative instructions following advanced surgery</p>	empathise with patients who may need to face more invasive surgical techniques	ST SDL CBL	FA ROC

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2.3.4 Management of Medical Emergencies	the medical conditions that could lead to a medical emergency  emergency drugs and equipment used in the management of a medical emergency	give basic life support  fulfil the role of the dental nurse in a medical emergency	understand the importance of being able to manage a medical emergency  understand the need to keep medical emergency skill effective through regular training and participation in simulated scenarios	ST SDL	FA ROC

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## 2.4 KEEPING PATIENTS AND THEIR DATA SAFE

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<b>2.4.1 Health and Safety</b>	<p>the Control of Substances Hazardous to Health (COSHH) regulations</p> <p>the Health and Safety at Work Act (1974)</p> <p>the Controlled Waste regulations</p> <p>personal protection requirement for the different stages of dental implants</p> <p>the Ionising Radiation Regulations 1999 (IRR99) and Ionising Radiation (Medical Exposure) Regulations 2000 IR(ME)R2000</p>	<p>handle potentially hazardous materials and equipment</p> <p>safely dispose of clinical and non-clinical waste</p>	<p>appreciate the importance of personal protection</p> <p>appreciate the importance of following current national guidance</p>	SBL ST	FA ROC
<b>2.4.2 Infection Control and Decontamination</b>	<p>current legislation which applies to infection control in the clinical environment</p> <p>the preventive measures necessary to limit cross infection</p> <p>the potential infection hazards within the clinical environment</p> <p>the importance of vaccination</p> <p>the understanding of standard precautions</p>	<p>practice the principles of infection control including the process of decontamination</p> <p>sterilise and disinfect instruments, surfaces and other items for example dental impressions</p> <p>prepare the patient and clinical environment for implant surgical procedures</p>	<p>appreciate the implications of failure of infection control and decontamination to staff, patients and treatment outcomes</p>	ST CBL SDL	FA ROC

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<b>2.4.3 Record Keeping</b>	<p>the clinical requirements for record keeping relating to dental implant procedures</p> <p>the Data Protection Act and other regulations related to record keeping for dental implant procedures</p> <p>the regulations relating to confidentiality</p> <p>the appropriate storage of clinical records relevant to dental implant procedures</p> <p>record keeping related to the use of consumable materials</p>	<p>make a selection of specific clinical and laboratory records relevant to implant procedures</p>	<p>understand the importance of keeping full and accurate dental records</p>	<p>ST SDL CBL</p>	<p>FA ROC</p>
<b>2.4.4 Medico-Legal Issues</b>	<p>the scope and limitations of the dental implant nurse</p> <p>the relevance of clinical governance and audit to implant treatment</p> <p>the importance and meaning of consent for dental implant procedures</p> <p>the relevance of professional indemnity for the dental implant nurse</p> <p>the role of the regulatory authorities in implant dentistry</p>	<p>participate in the consent process.</p> <p>apply their knowledge of the GDC standards.</p>	<p>understand the importance of gaining fully informed valid consent for dental implant procedures</p> <p>understand the professional responsibility they under take when working as part of the dental implant team and the implications a failure to maintain these standards might have on their registration</p>	<p>ST ACI SDL</p>	<p>FA ROC</p>

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