



Ultrasound  
Academy

# Postgraduate Prospectus

PG Certificate in  
Ultrasound for Surgery

# PG Certificate in Ultrasound for Surgery

## INTRODUCTION

The course will prepare clinicians, trainees and specialists in Surgery to practice point-of-care ultrasound in the management of surgical patients.

The programme focuses on the acquisition, interpretation and integration of ultrasound findings into clinical decision-making across a range of common surgical presentations. Through a combination of online learning, hands-on practical training, mentored scanning and work-based practice, learners will develop the knowledge and skills required to perform ultrasound safely and effectively within their clinical environment.

## ENTRY REQUIREMENTS

No previous ultrasound experience required. Applicants must be registered medical doctors or healthcare practitioners of good professional standing and be proficient in English.

Applicants whose first language is not English may be required to provide evidence of English language proficiency through a recognised qualification such as IELTS, TOEFL, Cambridge C1 or equivalent.

## PROGRAMME INFORMATION

### MQF Level

Level 7

### Accreditation Category

Higher Education Programme

### EQF Level

Level 7

### Mode of Study

Blended Learning (Online / In-Person)

### ECTS

30 Credits

### Duration

12 Months (Part Time)

### Programme Type

Qualification

## DESCRIPTION

The programme covers an introduction to the Fundamentals of Ultrasound Scanning and six valuable surgical applications including:

- > Ultrasound Fundamentals for Surgery
- > Abdominal Aortic Aneurysm (AAA) Ultrasound
- > eFAST and FAFF Ultrasound
- > Renal Ultrasound
- > Hepatobiliary Ultrasound
- > Ultrasound Guided Vascular Access and Procedures
- > Musculoskeletal Basics and Soft Tissue Ultrasound

Further details regarding learning outcomes of specific applications may be found on the Academy website. The programme is highly practical and is delivered using a combination of blended learning, mentored scanning and work-based clinical practice.

Didactic components are delivered through online lectures, reading material, case discussions and in-person teaching sessions. Most theoretical content is delivered online and can be completed at the student's own pace before attending practical workshops.

## PROGRAMME STRUCTURE

### Module 1

Ultrasound Fundamentals for Surgery  
8 ECTS

### Module 2

Clinical Module 1  
11 ECTS

#### Applications:

- Abdominal Aortic Aneurysm (AAA)
- eFAST/FAFF
- Renal Ultrasound

### Module 3

Clinical Module 2  
11 ECTS

#### Applications:

- Hepatobiliary Ultrasound
- Ultrasound Guided Vascular Access /Procedural
- Musculoskeletal Basics
- Soft Tissue Ultrasound

**Total Programme Credits: 30 ECTS**

There are three components involved in learning Point-of-Care Ultrasound:

1

### **SCAN TECHNIQUE**

Learning the correct scanning technique to acquire diagnostic quality images and apply strategies to overcome technical challenges and patient-related limitations.

2

### **INTERPRETATION**

Interpretation of ultrasound images to identify normal anatomy and recognise the presence or absence of pathology.

3

### **INTEGRATION**

Understanding how ultrasound findings influence clinical reasoning, diagnosis and patient management within surgical practice.

Scanning technique is primarily learned through mentoring and supervised practice. Skills are first taught during intensive hands-on training sessions with substantial supervised scanning to establish a strong technical foundation.

This is supplemented by work-based clinical practice designed to reinforce correct technique in real-world patient populations. A proportion of scans must be mentored to ensure appropriate progression and competency development.

Throughout the programme, students participate in one-to-one mentor encounters during which they practice applications, receive feedback, address learning needs and review progress towards logbook completion.

Candidates are required to complete a minimum of 200 documented ultrasound examinations and maintain a clinical logbook demonstrating progressive competence.

Interpretation and integration are taught through real-world clinical cases, pathological image review, case-based discussions and clinical decision-making exercises. These activities help learners understand not only how to perform ultrasound examinations but also when and how to apply ultrasound findings appropriately within surgical care.

## ASSESSMENT

Assessment consists of:

- > Multiple Choice Question (MCQ) examinations
- > Clinical case-based short answer questions
- > Objective Structured Clinical Examinations (OSCEs)
- > Clinical logbook completion
- > Formative assessment during mentor-mentee meetings
- > Literature review

Students must demonstrate competence in image acquisition, image interpretation and clinical integration across all applications.

Successful completion of the programme leads to the award of the:

### **POSTGRADUATE CERTIFICATE IN ULTRASOUND FOR SURGERY**

**MQF Level 7 | EQF Level 7 | 30 ECTS Credits**



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