



HCS Post Graduate Diploma
In
Principles of Computer Assisted Knee Arthroplasty

Healthcare Skills International

QUALIFICATION PROSPECTUS



The integrity of industry standards is the future of patient safety.



HC Skills International Post Graduate Diploma in Principles of Computer Assisted Knee Arthroplasty

Contents

Course Programme

Faculty List

Course Syllabus

Training Partners

Venues

How we work with EduQual

Qualification Level Descriptors

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Postgraduate Diploma
In
Principles of Computer-Assisted Total Knee Arthroplasty

	DAY ONE
Registration & Coffee	08:30
Introduction to course and CAS <i>Consultant Orthopaedic Surgeon</i>	08:40
Revision of Knee Arthroplasty Principles <i>Consultant Orthopaedic Surgeon</i>	09:05
What's behind CT free navigation <i>Consultant Orthopaedic Surgeon</i>	09:20
Image based navigation <i>Consultant Orthopaedic Surgeon</i>	10:00
BREAK	10:40
Theatre set up, Trackers, and Registration <i>Senior Industry Professional</i>	10:55
Measured Resection (How to do a navigated knee) <i>Consultant Orthopaedic Surgeon</i>	11:20
Gap Balanced Technique (How to do a navigated knee using the software) <i>Consultant Orthopaedic Surgeon</i>	11 :40
Algorithm for soft tissue balancing <i>Consultant Orthopaedic Surgeon</i>	11:55
Differences between systems and tracking systems <i>Consultant Orthopaedic Surgeon</i>	12:30
LUNCH	13:00
Validation of methods <i>Consultant Orthopaedic Surgeon</i>	13:40
What is the evidence? <i>Consultant Orthopaedic Surgeon</i>	14:10
Workshop Introduction <i>Consultant Orthopaedic Surgeon</i>	14:40



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Workshop 1 (Navigation)	14:45
BREAK	15:45
Workshop 2 (Navigation)	16:00
Ethics <i>Consultant Orthopaedic Surgeon</i>	16:40
Summary/Questions and Answers	17:20
CLOSE	17:30
Course Dinner	19:30



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	DAY TWO
Arrival/Coffee	
Introduction	08:30
What do we need to know and do by the end of the day <i>Consultant Orthopaedic Surgeon</i>	08:45
Recap Day 1: Ask the faculty?	08:50
Patient Specific Guides <i>Consultant Orthopaedic Surgeon</i>	09:10
Robotics in Orthopaedic Joint Replacement <i>Professor in Medical Robotics</i>	09:40
BREAK	10:20
The Computer as a Teaching Tool <i>Senior Industry Professional</i>	10:35
Risks and Complications <i>Consultant Orthopaedic Surgeon</i>	11:05
Workshop (Other Technologies)	11:30
LUNCH	13:30
Evolution of Surgical Workflows <i>Senior Industry Professional</i>	14:00
Assessment introduction <i>Consultant Orthopaedic Surgeon</i>	14:30
Workshop 1 Assessment (Navigation)	14:35
BREAK	15:15
Workshop 2 Assessment (Navigation)	15:30
Summary/Questions and Answers <i>Consultant Orthopaedic Surgeon</i>	16:10
CLOSE	16:20



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Course Costs

£1500 (plus VAT) per delegate

£1250 (plus VAT) per delegate for CAOS members

plus

£235 (plus VAT) per delegate for the qualification registration paid to
The Government Awarding Body

Register

If you would like to register for a place on this course, please email:
jane@healthcareskills.com





0141 951 6000

Fax: 0141 951 6018 | hotel@goldenjubilee.scot.nhs.uk
Golden Jubilee Conference Hotel, Beardmore Street, Glasgow, G81 4SA

Public transport



By rail, Dalmuir Station from Glasgow, Edinburgh and London

Take a low level train from either Glasgow Queen Street or Central Station to Dalmuir Station. There are frequent trains running into the city centre and to Loch Lomond with a journey time of about 20 minutes. Connections to Edinburgh from Queen Street are every 15 minutes or take advantage of the new direct route from Dalmuir to Edinburgh which runs every hour. Travelling to the Golden Jubilee Conference Hotel from London, why not take the overnight sleeper service which runs nightly in both directions.



Bus routes

From Glasgow city centre you can take the First Glasgow bus No's 1, 1A and 1B. Please note that the number 2 only takes you as far as the Clydebank bus terminal. All services travel along Dumbarton Road.



Glasgow International Airport

Situated at junctions 28a, M8 to west of Glasgow. The Golden Jubilee Conference Hotel is an approximate 15 minute drive from the airport. Use M8/M898 (see locator map to the right), then follow route map below. Alternatively there are taxis available at the airport.

Courtesy Transfer: The Golden Jubilee Conference Hotel offers a courtesy transfer to and from the Glasgow International Airport. This is available on request and subject to availability



EduQual Postgraduate Diploma in Computer-Assisted Orthopaedic Systems

Faculty Leaders

Rashid Abu-Rajab – Consultant Orthopaedic Surgeon

Fred Picard – Consultant Orthopaedic Surgeon

Alberto Gregori - Consultant Orthopaedic Surgeon

Frank Foley – Senior Industry Professional

Joe Baines– Consultant Orthopaedic Surgeon


Andrew Johnston– Consultant Orthopaedic Surgeon Ferdinando

Rodriguez Y Baena – Professor in Medical Robotics Kamal Deep -

Consultant Orthopaedic Surgeon

David Large – Consultant Orthopaedic Surgeon





HEALTHCARE SKILLS INTERNATIONAL QUALIFICATION SYLLABUS

EduQual Postgraduate Diploma in Principles of Computer Assisted Knee Arthroplasty

Level: 7
Entry Criteria : Qualified medic with minimum 3 years experience in Orthopaedic Surgery

Description

This unit develops the knowledge and skills relevant to computer assisted knee arthroplasty. Pre-course study examines contemporary prosthetic knee alignment rationale and the principles of computer-assisted arthroplasty. The unit details the science that underpins optical and electro-magnetic tracking. The unit examines the methodology of using a computer for surgical planning and decision-making. Practical workshop sessions develop and assess the delegate's comprehension of the software and surgical workflows.

Assessment Criteria

As a professional qualification there are four key elements to be assessed:

- Knee alignment principles
- The principles of optical and electro-magnetic tracking
- Medical imaging techniques
- Soft tissue and joint gap management

This unit will be assessed through four different activities:

- Verbal technical instruction exercises providing reasoned arguments for decision
- Candidates will complete a multiple-choice questionnaire covering all aspects of the unit
- Orthopaedic Science case study presentations
- Written exercise on Principles of knee alignment

Delivery

The programme will be delivered through formal presentations, problem based learning and practical clinical (bio skills) sessions administered and facilitated by clinical educators with the defining experience and qualifications.



Those who have completed our courses include:

- Practicing medics (surgeons, physicians, all medical practitioners)
- Pharmacists
- Nurses
- Medical Device company representatives
- Pharmaceutical company representatives
- Regulatory personnel in companies that manufacture, sell or place medical devices on the market

The outcomes for those who successfully complete them are:

- An understanding of what constitutes best practice and key skills in a clinical environment
- A firm grasp of legal obligations in hospital and clinical settings
- An ability to assimilate the expectations of members of the clinical team
- The acquisition of skills that will help to improve training approaches and skills to maximise clinical output
- An understanding of detailed regulatory requirements and implications of medical device legislation
- The potential to develop their skill sets to a level of medical device formal/corporate sign-off
- An understanding of obligations relating to the sale of and correct patient use of medical devices and required reporting/record-taking

“Healthcare Skills International ensure that the highest ethical, legal and teaching standards are maintained through the delivery of our professional qualification programmes”

Clinical Lead for Healthcare Skills International

All those who take part in our courses are able to legitimately demonstrate a level of competence that meets all relevant professional requirements reflecting the national qualifications framework.

Healthcare Skills provide the following qualifications framework that is defined by national standards and meets all relevant requirements and registration systems:

- Post-graduate Diploma in Computer Assisted Surgery
- Post-graduate Diploma in Clinical Education
- Orthopaedic Healthcare Industry Professional Diploma
- Media engagement for healthcare professionals – Certificate and Diploma
- Suite of medical device regulatory and medical device commercial qualifications – Certificate and Diploma
- Advanced Professional Award in Hospital Procurement
- Hospital Access/Theatre (OR) Skills – Professional Award
- Pharmaceutical Ethics – Certificate and Diploma

HEALTHCARE SKILLS INTERNATIONAL ARE PROUD TO BE IN PARTNERSHIP WITH:

Cochlear UK & Europe	
Computer Assisted Orthopaedic Surgery (CAOS, BOA)	Barema
University of Madrid (Fannin, Medical Device Regulations)	Developed Edge

OUR TRAINING VENUES

GOLDEN JUBILEE NATIONAL HOSPITAL,
National Waiting Times Centre Board,
Golden Jubilee National Hospital,
Beardmore Street,
Clydebank,
G81 4SA,
UK.

HOSPITAL NISA PARDO DE ARAVACA,
La Salle, 12,
28023 Madrid,
Spain.

HOSPITAL NISA 9 DE OCTUBRE,
Valle de la Ballestera 59,
46015 Valencia,
Spain.

NISA SEVILLA ALJARAFE HOSPITAL,
Avda. Plácido Fernández Viagas,
s/n 41950 Castilleja de la Cuesta
Sevilla,
Spain.

LEITER HOTELLERIE,
Spital und Gesundheitszentrum SANITAS,
Grütstrasse 60,
8802 Kilchberg,
Switzerland.

ADDENBROOKE'S HOSPITAL
Cambridge University Hospitals,
Hills Road,
Cambridge,
CB2 0QQ.

LA SALLE CENTRO UNIVERSITARIO
C/ La Salle, 10,
28023 Madrid,
Spain.



HOW DO HEALTHCARE SKILLS INTERNATIONAL WORK WITH EDUQUAL?

Healthcare Skills International is an approved audited education centre, delivering a range of professional, competence-based qualifications awarded by eduQual.

Why do Healthcare Skills work with eduQual?

1. Professional Healthcare Skills qualifications developed with employers.

eduQual work with the relevant sector skills bodies and industry professionals to ensure that the qualifications they offer meet the needs of employers and provide the latest industry thinking.

2. Guaranteed and reliable quality

eduQual is underpinned by a commitment to meeting the highest standards of quality. Qualifications are developed in line with the standards specified on the Qualifications and Credit framework (QCF) produced by the UK's national qualifications regulator ofqual.

3. Delivering 'fit for purpose' ready certified professionals.

Completing an eduQual professional qualification with Healthcare Skills means you are ready to enter the workplace. Each candidate is certified by eduQual as having demonstrated that they have the skills they need to operate effectively in their chosen industry.

With eduQual qualifications delivered by Healthcare Skills, corporations' representatives can provide externally validated evidence of competence to demonstrate, teach, support and promote their products.

eduQual is a UK awarding organisation which develops and accredits qualifications designed to meet the needs of learners and industry sectors and to provide individuals with opportunities for personal and professional development.

eduQual qualifications are based on the National Qualification Framework which consists of Awards, Certificates and Diplomas following levels set by ofqual, the regulator for qualifications in England.

“Working with eduQual has been a great success. Through eduQual, Healthcare Skills are able to deliver professional qualifications based on professional standards. There are many training courses available for business professionals; the advantage of eduQual courses is that learners achieve professional qualifications”

Diane Irvine, CEO, Healthcare Skills



Qualification Level	Award 10-120 Hours	Certificate 130 - 360 Hours	Diploma 370 - 900 Hours	Extended Diploma →900 Hours	Level Descriptors
7	Postgraduate Award	Postgraduate Certificate	Postgraduate Diploma	Extended Postgraduate Diploma	Achievement at level 7 reflects the ability to reformulate and use relevant understanding, methodologies and approaches to address problematic situations that involve many interacting factors. It includes taking responsibility for planning and developing courses of action that initiate or underpin substantial change or development, as well as exercising broad autonomy and judgment. It also reflects an understanding of relevant theoretical and methodological perspectives, and how they affect their area of study or work.
6	Graduate Award	Graduate Certificate	Graduate Diploma	Extended Graduate Diploma	Achievement at level 6 reflect the ability to refine and use relevant understanding, methods and skills to address complex problems that have limited definition. It includes taking responsibility for planning and developing courses of action that are able to underpin substantial change or development as well as exercising broad autonomy and judgment. It also reflects an understanding of different perspectives, approaches or schools of thought and the theories that underpin them.
5	Advanced Professional Award	Advanced Professional Certificate	Advanced Professional Diploma	Extended Advanced Professional Diploma	Achievement at level 5 reflects the ability to identify and use relevant understanding, methods and skills to address broadly-defined, complex problems. It includes taking responsibility for planning and developing courses of action as well as exercising autonomy and judgment within broad parameters. It also reflects understanding of different perspectives, approaches or schools of thought and the reasoning behind them.
4	Professional Award	Professional Certificate	Professional Diploma	Extended Professional Diploma	Achievement at level 4 reflects the ability to identify and use relevant understanding, methods and skills to address problems that are well defined but complex and non-routine. It includes taking responsibility for overall courses of action as well as exercising autonomy and judgment within fairly broad parameters. It also reflects understanding of different perspectives or approaches within an area of study or work.
3	Advanced Award	Advanced Certificate	Advanced Diploma	Extended Advanced Diploma	Achievement at level 3 reflects that ability to identify and use relevant understanding, methods and skills to complete tasks and address problems that, while well defined, have a measure of complexity. It includes taking responsibility for initiating and completing tasks and procedures as well as exercising autonomy and judgment within limited parameters. It also reflects awareness of different perspectives or approaches within an area of study or work.
2	Intermediate Award	Intermediate Certificate	Intermediate Diploma	Extended Intermediate Diploma	Achievement at level 2 reflects the ability to select and use relevant knowledge ideas, skills and procedures to complete well-defined tasks and address straightforward problems. It includes taking responsibility for completing tasks and procedures and exercising autonomy and judgment subject to overall direction or guidance.
1	Foundation Award	Foundation Certificate	Foundation Diploma	Extended Foundation Diploma	Achievement at level 1 reflects the ability to use relevant knowledge, skills and procedures to complete routine tasks. It includes responsibility for completing tasks and procedures subject to direction or guidance.
Entry	Entry Award	Entry Certificate	Entry Diploma	Extended Entry Diploma	Achievement at Entry level reflects progress towards making use of skills, knowledge and understanding (i) that relate to the immediate environment, or (ii) to carry out simple familiar tasks and activities with guidance, or (iii) to carry out structured tasks and activities with guidance.



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