



our course is accredited by



ROYAL COLLEGE OF
PHYSICIANS AND
SURGEONS OF GLASGOW

Introducing from Florida, USA

Dr Rick Ferguson DMD

THE DIGITAL REVOLUTION AND IN PRACTICE 3D PRINTING

15th/16th September 2023

Drawing Room 1

The Titanic Hotel

Belfast

Northern Ireland

DAY 1

9.45am

Welcome and Introductions

10.00am

Introduction : The digital revolution in Dentistry

Dr Rick Ferguson DMD

History

3D scanning – the replacement for impression taking

3D files produced from scanners – accuracy, dentist benefits, patient benefits

3D printers – the future for dentistry and dental laboratory applications

11.30am

Refreshment break

12.00pm

3D scanners and scanning :

Dr Rick Ferguson DMD

Advancement of the technology

Uses in Dentistry

Accuracy and patient benefits compared to modern impression materials

Practice integration of scanning technology and training

Benefits to Dentistry – from hospital practice to general practice

Which digital scanner?

Software and software development – digital design

Laboratory communication, advantages for dentists and laboratories

Workflows for dental disciplines – prosthetics/restorative/implantology

Digital design in laboratories

Dentist/technician communication

A new world of choice of laboratory

Orthodontics and Orthodontic planning – fixed appliances and clear aligners

1.00pm

Lunch

2.00 pm

Applications for 3D printers in Dental Practice

Dr Rick Ferguson DMD

Restorative

Prosthetic

Implantology

Maxillofacial Surgery

4.15pm

Refreshment break with afternoon tea

4.45pm

Applications for 3D printers in Dental Practice

Dr Rick Ferguson DMD

Orthodontics and in house clear aligners

5.30pm

Questions and answers

6.00pm

Day 1 end

DAY 2

9.00am

The 3D printing process

Dr Rick Ferguson DMD and Dr Richard Morrison BDS(Hons) MFDS RCPS(Glasg)

3D printing resins

Designing your appliances, software, digital laboratories

File types in 3D printing

Preparing your design for 3D printing – slicing

10.30am

Refreshment break

11.00am

Dr Rick Ferguson DMD

Transferring your files to your printer

Printing

Cleaning and curing your prints

Post processing and finishing

12.00pm

Practical demonstration

Dr Rick Ferguson DMD

Slicing software and supporting your design for printing

1.00pm

Lunch

2.00pm

Practical

Dr Rick Ferguson DMD, Dr Richard Morrison BDS(Hons) MFDS RCPS(Glasg)

Mr Mark Barry ESM Digital

Working with 3D scanners, design software, slicing software

Live scanning and 3D printing on all levels of printers, cleaning, curing and post processing

4.00pm

Refreshment break with afternoon tea

4.30pm

Starting 3D printing – integration into dental practice

Dr Richard Morrison BDS(Hons) MFDS RCPS(Glasg)

Dental specific vs consumer level 3D printers

Setting up the 3D printing room

Required accessories

Controlling expenses and increasing practice profitability

Health and Safety requirements and implementation

5.15pm

Discussion plus questions and answers

6.00pm

Day end with presentation of course certificates

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