Technology applied in dentistry: CAD-CAM fabricated restorations in modern adhesive dentistry

Computer aided design and manufacturing (CAD/CAM) technology has revolutionised the field of dental restorations. We invite you to deepen your knowledge in this new field of dental technology and to learn more about the treatment methods of the future. This course consists of 24 hours of lectures and hands-on training, and it is worth 2 ECTS credits.

Course objectives:
- To describe the clinical applications, benefits and limitations of the CAD/CAM systems
- To understand the design and fabrication of different restorations: inlays, onlays, veneers, crowns, fixed partial dentures, implants, abutments, and full-mouth reconstruction
- To understand and implement proper techniques for surface preparation of tooth and restorative surfaces
- To learn the technical skills required to use CAD/CAM technology

Length of the course
3 days (2 ECTS points, European Credit Transfer System)

Format
Lectures and hands-on training

Lecturers
- Kari Pihlman (DDS, Private practice in Finland)
- Petri Kajander (Product Manager, Planmeca)

Topics
- Overview of CAD/CAM systems
- Understanding of biomechanics of intact and restored teeth and dentition
- Insight to the materials used in CAD/CAM process (glass ceramics, crystallized ceramics, composites)
- Principles of adhesion to tooth surfaces
- Principles of adhesion to restorative materials
- Clinical use of indirect restorations
- Longevity and maintenance treatment of restorations
- Application and simulation training
Course schedule

Day 1 (Lectures):
- Overview of the current CAD-CAM systems
- Step by step – tooth preparation according to the different applications
- Principles of adhesion to tooth surfaces
- Principles of adhesion to restorative materials
- Clinical advantages and disadvantages of the system
- Laboratory testing of the performance of cemented restorations made with CAD/CAM
- Materials used with CAD/CAM technology

Day 2 (Hands-on):
- CAD/CAM dentistry – Chairsde system overview and basic scanning techniques
- Case 1 – Crown with buccal bite scan
- Introduction to the milling system and Maintenance steps
- Case 2 – Crown with no distal
- Preparation guidelines and tissue management
- Case 3 – Multiple Inlay and Onlay

Day 3 (Hands-on):
- Stain and Glaze – milling materials and finishing of the restoration
- Impression scanning and scanning clone
- Case 4 – Tailored to meet course participants’ special needs
- Questions and answers

Course dates
- 15-17 April, 2015
- 14-16 October, 2015
- The course runs from Wednesday to Friday. Voluntary visit to Planmeca’s headquarters and factory will be offered to the interested participants on the Tuesday before the course.

Venue
Planmeca Oy
Asentajankatu 6
FIN-00880 Helsinki, Finland

Target group
- Graduated dentists
- The course will be carried out in English

Course fee
The price of the course is 1500€ + value added tax (24%). The price includes the lectures and training, materials, lunches and refreshments. Travel and hotel costs are not included.

For further information and registration, please contact:
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