# Guided surgery & digital workflow in implant dentistry

HANDS-ON TRAINING

## Prof Hani Tohme, Lebanon

DDS, MSc, MRes, PhD


**14CE**
Credits

**DATE:**
28-29 Jan 2023 | 09:00 - 18:00

**LOCATION:**
CAPP Training Institute | Dubai | UAE

**TARGET AUDIENCE:**
General Dentistry, Implant Dentistry


## Abstract

The course will cover the necessary knowledge about guided surgery and the digital workflow in implant dentistry. In the first day of the course, the focus will be on guided surgery, from planning to execution. The participants will learn how to virtually plan implant placement with a prosthetically driven mindset on the planning software for single, multiple, and full implant cases. Afterwards, the participants will learn how to design a surgical guide depending on the case and how to proceed with the manufacturing steps. The participants will then learn how to fix the sleeves on a printed guide and then how to support the guide on a model along with the drilling steps for implant bed preparation.

The second day of the course will focus more on digital steps to obtain an implant-supported prosthesis. The participant will learn how to register a digital implant impression using an intraoral scanner, how to import the file on the designing software, how to superimpose the scan body obtained with the scanner to its corresponding library file, and how to design an implant-supported prosthesis on a digital titanium base abutment. The cases will include single and multiple implant restorations.

All the steps will be shown by the instructor for the explanation of all the details.

The course will start by presenting fully documented clinical cases, with a step-by-step workflow, showing what is really possible to achieve and the limitations of the proposed techniques.


## Learning Objectives & Outcomes

- Explain and demonstrate how to virtually plan implant cases
- Explain how to design and fabricate a surgical guide
- Explain and demonstrate how to surgically implement the planned guided implant placement
- Explain and demonstrate how to digitally register implant impressions
- Explain and demonstrate how to digitally design implant-supported prostheses
- Discuss different clinical cases and approaches
- Discuss what is present in the literature for now

## Agenda Day 1

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|---|---|
| 09:00 – 10:45 | **Lecture:** Freehand VS Guided Surgery, Requirements of Guided Surgery, Planning Software, Single Implant Guided Surgery, Implant Guided Surgery in Partially Edentulous Cases, Implant Guided Surgery in Full Edentulous Cases |
| 10:45 – 11:00 | Coffee Break |
| 11:00 – 12:30 | Clinical cases discussion |
| 12:30 – 13:30 | Lunch |
| 13:30 – 16:00 | **Hands-On:** Virtual planning of single and multiple implant cases, Design of surgical guide |
| 16:00 – 16:15 | Coffee Break |
| 16:15 – 17:30 | **Hands-On:** Fabrication of Surgical guide, Execution of the planned surgery on a model |
| 17:30 | Final discussion and end of the programme |

## Agenda Day 2

| | |
|---|---|
| 09:00 – 10:45 | **Lecture:** Acquiring Digital Implant Impression, Factors affecting the accuracy of digital impressions in implant-supported cases, Designing implant-supported prostheses, Manufacturing Implant-supported prosthesis, Step by step workflow from computer-aided imaging to computer-aided manufacturing |
| 10:45 – 11:00 | Coffee Break |
| 11:00 – 12:30 | Clinical cases discussion |
| 12:30 – 13:30 | Lunch |
| 13:30 – 16:00 | **Hands-On:** Digital impressions for single and multiple implant cases |
| 16:00 – 16:15 | Coffee Break |
| 16:15 – 17:30 | **Hands-On:** Designing implant-supported prostheses |
| 17:30 | Final discussion and end of the programme |

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