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From Fundamentals to Mastery

A Two-Day Journey in Modern Endodontics

Erbil | November 2026

Course description

This intensive two-day course combines contemporary endodontic principles with practical training, guiding participants from diagnosis and treatment planning to the management of complex clinical challenges. Through lectures, clinical case discussions, and hands-on exercises, participants will explore strategies for preserving tooth structure, preparing challenging canal systems, optimizing disinfection, and managing procedural complications.

Day one focuses on the foundations of modern endodontic treatment: diagnosis and clinical decision-making, including the role of CBCT, access cavity design, shaping strategies, and irrigation protocols. Participants will apply these concepts through access preparation and shaping of maxillary and mandibular molars, alongside an exercise dedicated to double-curved canal anatomy.

Day two explores the use of hydraulic materials for obturation and repair, the assessment of root canal treatment failures, and strategies for managing root canal obstructions. Practical exercises will cover hydraulic cement obturation, perforation repair, apical plug placement, ledge management, and the removal of posts and separated instruments.

Learning objectives

1. Integrate diagnostic findings and the role of CBCT into a structured endodontic treatment plan.
2. Design access cavities that balance clinical access with preservation of tooth structure.
3. Apply shaping strategies for molar canals and double-curved anatomy.
4. Develop an irrigation protocol incorporating appropriate delivery and activation methods.
5. Select and apply hydraulic materials for obturation, perforation repair, and apical plug placement.
6. Evaluate causes of root canal treatment failure and assess management options.
7. Apply systematic approaches to managing canal obstructions and removing posts and separated instruments.

Diagnosis, Access, Shaping, and Irrigation

Theory

- Diagnosis and decision-making: A systematic approach to clinical assessment, interpretation of findings, and endodontic treatment planning, including the role of CBCT in evaluating complex anatomy, supporting diagnosis, and guiding treatment decisions.
- Access cavity design and strategy: Adapting access to tooth anatomy and clinical requirements while balancing visibility, instrument access, and preservation of tooth structure.
- Shaping in modern endodontics: Instrument selection and preparation strategies for maintaining the original canal pathway and managing complex curvatures.
- Irrigation protocols: Irrigant selection, sequencing, delivery, and activation within a practical disinfection protocol.

Hands-on training

- Access cavity preparation in one maxillary molar and one mandibular molar.
- Root canal shaping in both molars.
- Negotiation and shaping of a double-curved canal.

Hydraulic Materials, Treatment Failures, and Procedural Challenges

Theory

- Hydraulic materials for obturation and repair: Material properties, clinical indications, and application principles.
- Root canal treatment failures: Identifying potential causes, assessing the prognosis, and selecting an appropriate management strategy.
- Managing root canal obstructions: Assessment and management of calcifications, ledges, blockages, and separated instruments, including clinical limitations and treatment considerations.

Hands-on training

- Root canal obturation using hydraulic cements.
- Perforation repair using hydraulic putty.
- Apical plug placement using hydraulic putty.
- Ledge bypass and management.
- Fibre post removal.
- Metal post removal.
- Separated instrument removal.