

Course Objectives/Course Outline
Spokane Community College

Course Title: EFDA Composite Restorations

Prefix and Course Number: Dent 151

Course Description:

The following objectives and content focuses on the didactic components of the composite curriculum to include: armamentarium including various matrices, classification of restorations; components of the prepared tooth; materials, composition of composites, advantages and disadvantages, indications and contraindications; placement and finishing; evaluation of restoration and occlusal adjustment.

Course Learning Outcomes:

By the end of this course, a student should be able to:

Objectives:

The successful student will meet the following objectives and demonstrate an understanding of the facts, principles and techniques in this course.

- Identify armamentarium used to place and finish composite restoration.
- Explain the function of the various matrices, retainers and wedges.
- Describe how tissues surrounding the tooth may be impacted during the placement of matrix/wedge and an improperly contoured restoration.
- Describe cavity classifications and all aspects of a cavity preparation.
- Describe various systems for acid etching, bonding, bases, liners, and sealers.
- Explain the rationale for placing composite restorations.
- Identify the classifications of composite resins.
- Differentiate between composite materials, appropriate uses, advantages/disadvantages, and indications/contraindications.
- Describe uses and procedures for the placement of glass ionomers and compomers.
- Explain the physical properties of composites to include shrinkage, thermal expansion, and wear resistance.
- Describe the principals that effect shade selection.
- Explain moisture control and preventing contamination of the cavity preparation before placement of restorative materials.
- Describe the principals and procedural steps for placing composite restorations.
- Describe correct occlusal relations and the process for checking occlusion.
- Evaluate the restorative outcomes according to established criteria for the task.

Students may be assessed as to existing knowledge and performance. Instructions may be modified to address individual level of proficiency.

Course Outline:

- I. Armamentarium
- II. Matrices, retainers and wedges.
- III. Tissues management
- IV. Cavity classifications
 - A. Class I
 - B. Class II
 - C. Class III
 - D. Class IV

- E. Class V
- F. Class VI
- V. Cavity preparation terminology.
- VI. Bonding, bases, liners, and sealers.
- VII. Rationale for placing composite restorations.
- VIII. Classifications of composite resin materials.
 - A. Uses
 - B. Advantages/disadvantages
 - C. Indications/contraindications.
- IX. Glass ionomers and compomers.
 - A. Placing
 - B. Finishing
- X. Physical properties of composites/glass ionomers/compomers
 - A. Shrinkage
 - B. Thermal expansion
 - C. Wear resistance.
- XI. Shade selection.
- XII. Moisture control and contamination prevention.
- XIII. Steps for placing and finishing composite restoration
- XIV. Occlusal relations
 - A. Check
 - B. Adjust
- XV. Evaluate restoration.
- XVI. Post operative instructions