

**Course Objectives/Course Outline**  
**Spokane Community College**

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**Course Title:** EFDA Amalgam Restorations  
**Prefix and Course Number:** Dent 144

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**Course Description:**

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

**Course Learning Outcomes:**

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

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 amalgam 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 bonding, bases, and liners.
- Explain the physical properties and manipulation techniques of amalgam.
- Explain the rationale for placing, condensing, and carving amalgam restorations.
- Identify: appropriate use; advantages/disadvantages; indications/contraindications for amalgam restorations.
- Explain moisture control and the prevention of contamination of the cavity preparation before placement of restorative materials.
- Describe the principals and procedural steps for placing amalgam 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. Instruction may be modified to address individual level of proficiency.**

**Course Outline:**

- I. Armamentarium
- II. Matrices, retainers and wedges
- III. Tissue 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 and liners
- VII. Physical properties of amalgam
  - A. Safety protocol
  - B. MSDS protocol
- VIII. Patient management
- IX. Moisture control and contamination prevention of the cavity preparation.
- X. Place, condense and carve amalgam restoration
  - A. advantages/disadvantages
  - B. indications/contraindications
- XI. Occlusal relations
  - A. Check
  - B. Adjust
- XII. Evaluate restoration.
- XIII. Post-operative instructions.