

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

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**Course Title: *Dental Restorative Techniques Lab***

**Prefix and Course Number: DENT 137**

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**Course Learning Outcomes:**

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

1. Identify the role of the dental assistant through demonstration of knowledge safety of handling of materials, mixing techniques including fulcrum, properties of materials, including synthetic resins for fabrication of mouthguards, whitening/bleaching trays, temporary crowns and custom trays.
2. demonstrate or describe use of finishing, polishing, and cleaning materials that are used in dental procedures.
3. Identify the types and purpose of retraction cord. Indicate indications and contra indications of use in relation to medical histories. Place retraction cord on typodont.
4. Use dental nomenclature relating to dental chairside equipment and procedures orally and in writing.
5. Define and spell terminology used in this unit.
6. Identify and demonstrate when and where to use personal protective equipment prior to, during and after treatment following OSHA/WISHA standards.
7. Be familiar with Washington State Department of Health Scope of Practice as related to chairside procedures allowable in Washington State for dental assistants.
8. Demonstrate professional interpersonal communication both verbal and nonverbal with instructors and peers.

**Course Outline:**

**Custom Trays:**

- 1) Fabricate a quadrant and full arch custom tray.
- 2) Use aseptic technique when utilizing custom tray materials and do not cross contaminate.
- 3) Place and trim wax on an edentulous model in preparation of fabrication of a custom tray.
- 4) Place and trim wax on a patient quadrant model with teeth in preparation of fabrication of a custom tray.
- 5) Identify and demonstrate materials and techniques used in preparation of fabricating custom trays.
- 6) Describe and demonstrate safety precautions according to manufacturer's directions and dental assisting clinic procedures.

**Whitening Trays:**

- 1) Take acceptable impressions on a student partner.
- 2) Mix and pour gypsum product according to the instructor's/manufacturer's direction.
- 3) Separate the model from the impression without breaking any portion of the model. Use a lab knife.
- 4) Evaluate the resulting models for their usefulness and accuracy, including:
  - a. art base
  - b. anatomy

- c. smoothness of surface
- 4.) Utilize aseptic technique during the procedure and disinfect/sterilize as needed after completion of the project.
- 5.) Use a vacuum forming machine.
- 6.) Produce an acceptable whitening tray.

**Mouth Guard:**

- 1) Take an acceptable maxillary impression on a student partner.
- 2) Mix and pour gypsum product according to the instructor's/manufacture's direction.
- 3) Evaluate the resulting models for their usefulness and accuracy, including:
  - a. art base
  - b. anatomy
  - c. smoothness of surface
- 4) Utilize aseptic technique during the procedure and disinfect/sterilize as needed after completion of the project.
- 5) Use a vacuum forming machine.
- 6) Produce an acceptable mouth guard.

**Retraction Cord:**

- 1.) Identify different types of retraction cord.
- 2.) Describe medical and dental history indication and contraindications when placing a retraction cord.
- 3.) Place a retraction cord on a typodont.
- 4.) Explain contact times and demonstrate proper removal of cord.
- 5.) Explain the laboratory steps of procedure in fixed and removable prosthodontics.
- 6.) Discuss patient relations and understanding, including pre and post-operative instructions.

**Clean and Polish a Removable Appliance:**

- 1) Clean and polish a removable appliance using the ultrasonic and a lathe.

**Temporary Restorations:**

- 1) Prepare (2) acrylic temporary crowns on a typodont.
  - a. anterior
  - b. posterior (molar)
  - c. Fabricate a matrice for each temporary crown
  - d. Fabricate and trim acrylic crowns.
  - e. Demonstrate proper isolation and cementation procures.
  - f. Clean excess cement correctly, give patient post-operation instructions.
- 2) Measure and size an aluminum shell temporary crown.
  - a. Correctly isolate area for temporary crowns to be cemented.
  - b. Select, prepare and cement temporary crowns.
  - c. Demonstrate proper isolation and cementation procedures.
  - d. Clean excess cement correctly, give patient post-operative instructions.