

Course Objectives/Course Outline

Spokane Community College

Course Title: *Dental Restorative Techniques Lab*

Prefix and Course Number: DENT 127

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 impression materials, gypsum and waxes.
2. Identify the role of the dental assistant through demonstration of knowledge safety of handling of instruments and materials in relation to fixed and removable prosthodontics.
3. Use dental nomenclature relating to dental chairside equipment and procedures orally and in writing.
4. Define and spell terminology used in this unit.
5. Identify and demonstrate when and where to use personal protective equipment prior to, during and after treatment following OSHA/WISHA standards.
6. Be familiar with Washington State Department of Health Scope of Practice as related to chairside procedures allowable in Washington State for dental assistants.
7. Demonstrate professional interpersonal communication both verbal and nonverbal with instructors and peers.

Course Outline:

Impression Materials:

- 1) Manipulate restorative materials to:
 - a. Yield a clinically useful product
 - b. Prevent contamination and waste with maximum asepsis
 - c. Maintain equipment and instruments in working order.
- 2) Manipulate impression materials to obtain a clinically useful product with minimum waste and maximum asepsis.
- 3) Use aseptic technique when utilizing impression materials and do not cross contaminate.
- 4) Prepare all armamentarium for each impression material according to the manufacturers and/or supervisor's instructions, minimize waste and prevent contamination.
- 5) Assist in a mock final impression procedure. Hold final impression in place following doctors directions.
- 6) Identify and demonstrate materials and techniques used in preparation fixed and removable prosthodontics.
- 7) Describe and demonstrate safety precautions according to manufacturers directions and dental assisting clinic procedures.

Gypsum:

- 1) Mix the gypsum product according to the instructor's/manufacture's direction.
 - a) Pour the gypsum product into the impression by:
 - a. Adding small amounts of gypsum at a time.
 - b. Using a vibrator to reduce bubbles and facilitate the flow of the gypsum.
 - c. Covering each area with gypsum as it is reached to avoid bubbles.
 - d. Pushing air ahead of gypsum to avoid bubbles.
- 2) Separate the model from the impression without breaking any portion of the model. Use a lab knife.
- 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.) Produce an acceptable: (criteria on the procedure sheet and evaluation)
 - a. edentulous model
 - b. maxillary formed model
 - c. mandibular formed model
 - d. maxillary patient model
 - e. mandibular formed model

Waxes:

- 1.) Use baseplate wax to obtain a bite registration for patient study models.
- 2.) Identify and demonstrate the use of various waxes used in crown and bridge procedures.

Fixed and Removable Prosthodontics:

- 1.) Obtain an impression on a typodont.
- 2.) Use bite registration material to obtain a pre-impression.
- 3.) Assist with a final impression. Hold impression in place under direction of dentist.
- 4.) Identify fixed prosthodontics instruments and demonstrate sequence of fixed prosthodontics procedures.
- 5.) Explain the laboratory steps of procedure in fixed and removable prosthodontics.
- 6.) Demonstrate instrumentation when assisting in fixed and removable prosthodontics.
- 7.) Discuss patient relations and understanding, including pre and post-operative instructions.
- 8.) Identify different forms of cosmetic dentistry, procedures and materials used.