

Course Objectives/Course Outline
Spokane Community College

Course Title: *Dental Restorative Techniques*

Prefix and Course Number: DENT 136

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 of the discovery and development of materials used in dentistry, safety of handling of materials, properties of materials, including synthetic resins for fabrication of mouthguards, whitening/bleaching trays, temporary crowns and custom trays.
2. List the chemical composition and physical characteristics of each type of dental material.
3. Identify and demonstrate or describe use of finishing, polishing, and cleaning materials that are used in dental procedures.
4. Identify the types and purpose of retraction cord. Indicate indications and contra indications of use in relation to medical histories.
5. Use dental nomenclature relating to dental equipment and procedures orally and in writing.
6. Define and spell terminology used in this unit.
7. Identify when and where to use personal protective equipment prior to, during and after treatment following OSHA/WISHA standards.
8. Be familiar with Washington State Department of Health Scope of Practice as related to chairside procedures allowable in Washington State.
9. Demonstrate professional interpersonal communication both verbal and nonverbal with instructors and peers.

Course Outline:

Synthetic Resins

1. Describe the process of polymerization.
 - List the chemical composition and physical characteristics of Monomers-Polymers
 - Understand the variety of methods curing including, self, heat and light cure.
 - Identify uses of synthetic resins in dentistry.
2. Custom trays
 - Identify the importance of base plate wax in the use of fabrication of custom trays
 - Identify and describe the steps in constructing a full edentulous arch and quadrant custom tray.

Clean and Polish Removable Appliances

- Identify cleaning and polishing agents used in dentistry.
- Describe the affect of heat, pressure and abrasiveness has on a removable appliance.
- Describe steps take to clean and polish a removable appliance.
- Describe patient communication for care of removable appliances.

Fabrication, Placement and Removal of Temp Crowns and Removal of Temporary Cement

1. Fabrication of temporary crowns:
 - Differentiate between the variety of temporary crown available, including acrylic, pre-formed, etc.
 - Identify the different types of matrices that can be used for fabrication of a temporary crown.
 - Describe when a pre-impression is taken and used in a fixed prosthodontic procedure.
 - Identify qualities of an acceptable vs. unacceptable temporary crown.

Identify acceptable methods of isolation in preparation of cementation of a temporary crown.

- Describe steps in the sequence of temporarily cementation of a crown.
- Describe proper use of instruments and floss in removal of excess cement.
- Describe post-operative instructions of cementation.

Retraction Cord

- Identify the need for retraction cord.
- Identify medical indications for indication vs. contra indications of placement.
- Identify a variety of methods of retraction.
- Identify terminology pertained to retraction.
- Discuss and identify the mechanical and chemical methods of retraction.
- Identify sizes of cords and their uses. Identify the need for a one or two cord placement.

Mouth Guard

- Identify the need for mouth guards.
- Identify and discuss the types of, advantages/disadvantages of mouth guards.
- Identify the sequence of the of fabricating mouth guards.
- Identify gauges of material used for fabrication.
- Identify parts of a vacuum forming machine.
- Describe the process of using a vacuum forming machine.

Whitening/Bleach Trays:

- Identify the difference between whitening dentifrices and bleaching.
- Identify the desire for bleaching of teeth.
- Identify indications vs. contra indications for bleaching teeth.
- Identify and discuss the types of, advantages/disadvantages of bleaching solutions.
- Describe what carbamide peroxide vs. hydrogen peroxide is, advantages/disadvantages, wear time and chemical reactions present during use.
- Identify the sequence of the of fabricating bleaching trays.
- Discuss the purpose of block out.
- Identify gauges of material used for fabrication.
- Identify parts of a vacuum forming machine.
- Describe the process of using a vacuum forming machine.