

Spokane Community College

Course Title: *Chairside Related Theory Lab*

Prefix and Course Number: DENT 109

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 sterilization, disinfection and sanitizing techniques, dental operatory protocol, health histories, clinical evaluation and vital signs, prevention techniques and emergency protocols.
2. Use dental nomenclature relating to the dental operatory, sterilization area, equipment and procedures.
3. Define and use terminology presented in this unit.
4. Protecting self and others from cross contamination by wearing protective glasses, mask, gloves and uniforms following OSHA/WISHA standards.
5. Demonstrate safety and aseptic measures to self, patient and others at all times following OSHA/WISHA during:
 - a. Sterilization procedures
 - b. Maintenance of equipment
6. Follow aseptic techniques and understand and minimize cross-contamination.
7. Demonstrate professional interpersonal communication both verbal and nonverbal with instructors, peers and patients.
8. Identify and practice appropriate ethics when in clinic.

Course Outline:

Sterilization, disinfection and sanitizing techniques:

- a) Identify chemicals used in dentistry and describe:
 - i) Where and how the chemical is used
 - ii) Does the chemical sterilize, disinfect or sanitize.
 - iii) Active ingredient
 - iv) Dilution if necessary, shelf life
 - v) Contact time
- b) Demonstrate testing sterilizers and solutions for efficacy.
- c) Identify various modes of heat sterilization and cold chemical sterilization.
- d) Demonstrate competency in:
 - i) preparation of instruments for sterilization and chemical disinfection of instruments,
 - ii) disinfecting and maintaining aseptic technique in all chairside procedures.
- e) Demonstrate how to sanitize all instruments, supplies and equipment, which cannot be disinfected or sterilized.
- f) Demonstrate care and maintenance of high-speed and low-speed handpieces.
- g) Demonstrate safely disassembling an anesthetic syringe and disposing of needles and carpules correctly.
- h) Demonstrate how to dispose of amalgam scraps.
- i) Identify biohazard containers.

Dental Operatory Protocol:

- a) Demonstrate care of the dental unit at the beginning of the day and end of the day.
- b) Demonstrate proper waterline treatment.
- c) Use proper hand washing techniques prior to, during and after each appointment and at appropriate times.
- d) Use only sterile, disinfected or sanitized armamentarium and equipment for each patient.
- e) Demonstrate preparing a dental unit prior to patient treatment.
- f) Demonstrate cleaning and disinfecting a dental unit after each patient.

Health History, Clinical Evaluation and Vital Signs:

- a) Take, record and review medical and dental history, checking for all information, which will require altering methods, used in the procedure.
- b) Take and record the vital signs:
 - i) temperature
 - ii) pulse
 - iii) respiratory rate
 - iv) blood pressure
- c) Demonstrate principles of HIPAA.
- d) Utilize dental computer software.

Preventive Dentistry:

- a) Prepare a sterile disclosing tray set up and understand what each instrument/item is used for.
- b) Disclose and analyze a patient's oral hygiene effectiveness.
- c) Demonstrate a proper brushing and flossing technique.
- d) Utilize visual aids in patient oral hygiene.
- e) Communicate to patients the significance of nutrition including diet, cleansing and trigger foods.
- f) Record data on a patient chart including existing restorations, missing teeth and plaque.
- g) Demonstrate oral hygiene instruction on a student partner.

Emergency Procedures:

- a) Identify where the MSDS sheets, First Aid Kit, Oxygen and AED are located.
- b) Identifying steps taken during emergency conditions

Computerized Software:

- a) Sign onto dental computer software as a user, create a password.
- b) Fabricate a mock patient chart, access dental computer software entering patient information, including medical and dental history, appropriate consent and HIPAA forms, existing restorations and missing teeth and a treatment plan.