

Course Objectives/Course Outline
Spokane Community College

Course Title: *Chairside Related Theory*

Prefix and Course Number: DENT 112

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 dental profession and its professional organizations, sterilization, disinfection and sanitizing techniques, infectious diseases, microbiology, aseptic techniques, dental operator protocol, health histories, clinical evaluation and vital signs, prevention techniques and emergency protocols.
2. Use dental nomenclature relating to dental chairside related procedures orally and in writing.
3. Define and spell terminology used in this unit.
4. Identify when and where to use personal protective equipment prior to, during and after treatment following OSHA/WISHA standards.
5. Be familiar with Washington State Department of Health Scope of Practice as related to chairside procedures allowable in Washington State.
6. Demonstrate professional interpersonal communication both verbal and nonverbal with instructors and peers.

Course Outline:

Dental Profession and Professional Organizations:

- a) Identify interpersonal relationships with patients and the other health care team.
- b) History of Dentistry:
 - i) Identify early developments and major contributors to dentistry from early times through the Middle Ages and Renaissance.
 - ii) Trace the development of dentistry in the United States from colonial times through the early 1900's and identify major contributors to this growth.
 - iii) List the factors causing the increased demand for dental services.
- c) Dental Health Team
 - i) List and describe briefly, the eight dental specialties.
 - ii) Discuss the following team members and criteria for each member:
 - (1) Dentist: responsibilities, education, licensure, and professional organization.
 - (2) Dental Assistant: responsibilities, education, licensure & professional organization.
 - (3) Dental Hygienist: responsibilities, education, licensure & professional organization.
 - (4) Dental Laboratory Technician: responsibilities, education, certification.
- d) Identify the following: ADA, ADAA, ADHA, CDA, CDT, DAU, DDS, DMD, RDH.
- e) Look up the State Dental Practice Act and learn which functions are legal/illegal for dental assistants in Washington State.

Infectious Diseases/Microbiology

- a) Identify the following terms: aerobes, anaerobes, asepsis, epidemiology, micro organisms, obligatory parasite, pathogen, and asepsis.
- b) Identify various bacteria and describe how some bacteria protect themselves against adverse conditions by forming capsules and spores.
 - i) State the problems, which these cause in efforts to control microbial activity.
- c) Understand and describe:
 - i) Manmade defenses
 - ii) Classification of microorganisms
 - iii) Environmental conditions
 - iv) Types of immunity
 - v) Methods of disease transmission
- d) Understand and describe the role of microbiology in producing disease:
 - i) Portals of entry
 - ii) Mechanical barriers

- iii) Physiological barriers
- e) Identify various types of viruses in the dental environment
- f) Identify and describe what type of aerosols are in the dental environment

Aseptic technique, sterilization, maintenance and testing

- a) Differentiate between sterilization and disinfection.
- b) Identify the following terms: germicide, bacteriostatic and antiseptic.
- c) Discuss the use, dilution and shelf life of chemicals used for sterilization, disinfecting and cleaning.
- d) Understand the chain of asepsis for appointments and procedures by describing:
 - i) Proper hand washing techniques prior to, during and after each appointment at appropriate times.
 - ii) Protecting self and patients from cross-contamination by wearing proper protective equipment. (Uniforms, face mask, glasses and gloves)
 - iii) Use of only sterile, disinfected or sanitized armamentarium and equipment for each appointment and procedure.
 - iv) Sanitizing of all instruments, supplies and equipment, which cannot be sterilized.
- e) Understand and describe testing sterilizers and solutions.
- f) List safety factors involved in preparation and sterilization of anesthetic syringes, carpules and needles.
- g) Describe the protocol for water line maintenance.
- h) Identify biohazard container and appropriate waste disposed of into biohazard.
- i) Understand OSHA/WISHA standards set forth for Washington State.

Health History, Clinical Evaluation and Vital Signs

- a) Understand the process of obtaining and reviewing medical and dental histories including consent forms.
- b) Describe chronic health factors affecting treatment and emergency dental conditions.
- c) Explain the reasons for measuring and recording vital signs.
- d) Define and spell terminology relating to vital signs. Identify parts of equipment used for vital signs.
- e) Distinguish between baseline vital signs and vital signs.
- f) Identify the possible factors which influence abnormal vital signs in regard to temperature, pulse, respiratory and blood pressure.
- g) Describe what the assistant observes during a clinical evaluation.
- h) Describe HIPAA and identify personal identifiers that must be protected.
- i) Describe the steps to enter a patient into the computer software.

Preventive Dentistry

- a) Identify the need for preventive dentistry and discuss the cost of neglect.
- b) List the major aspects of preventive dentistry.
- c) Identify the following: calculus, plaque, disclosing agent and personal oral hygiene.
- d) Describe how plaque is formed and the patterns of accumulation on the teeth.
- e) Describe the different tooth brushing techniques.
- f) Describe appropriate means of motivating patients toward tailored optimal home care including:
 - i) Tooth brushing techniques
 - ii) Dental floss
 - iii) Plaque formation
 - iv) Diet, cleansing and trigger foods
 - v) Oral hygiene instruction
 - vi) Patient's home care instruction

Emergency Procedures:

- a. Identify MSDS sheets and describe their purpose.
- b. Understand and identify emergency procedures included in OSHA/WISHA standards.