

# DA A110: CHAIRSIDE TECHNIQUES 1

Item	Value
Curriculum Committee Approval Date	12/02/2020
Top Code	124010 - Dental Assistant
Units	3 Total Units
Hours	90 Total Hours (Lecture Hours 36; Lab Hours 54)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	Yes
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Standard Letter (S)

## Course Description

Four handed dentistry. History of the dental profession, Dental Practice Act, law and ethics. Charting, infection control protocols, sterilization procedures, use and maintenance of dental operatory equipment. Laboratory experience includes basic application of operative procedures. Course requires purchase of an appropriate clinical uniform and patient care safety goggles. COREQUISITE: DA A120. Transfer Credit: CSU.

## Course Level Student Learning Outcome(s)

1. Describe and demonstrate restorative dentistry principles while utilizing four-handed, sit-down applications, implementing appropriate patient care and specific infection control procedures in dentistry as mandated by OSHA.

## Course Objectives

- 1. Identify the principles and demonstrate the operation, use and maintenance of dental equipment routinely used in general practice in accordance with the manufacturers direction.
- 2. Describe and demonstrate the principles of four handed sit down dentistry. State the principles of work simplification, of motion and areas of activity.
- 3. Demonstrate seating the health team in their position.
- 4. Demonstrate proficiency in all steps of instrument transfer.
- 5. Prepare dental operatory and seat and dismiss the patient.
- 6. Demonstrate correct use of the high velocity oral evacuation system.
- 7. Given a patient, recognize and chart obvious carious lesions, missing teeth, and existing restorations.
- 8. Demonstrate completing a health patient history and related knowledge for patient care.
- 9. List correctly GV Blacks Classifications of Cavities.
- 10. Demonstrate compliance to OSHA regulations that governs the practice of dentistry.
- 11. Demonstrate the procedure for waste disposal as identified by OSHA.
- 12. Demonstrate the correct placement of the rubber dam using various clamps.

- 13. Demonstrate foundational knowledge of an amalgam, composite and permanent restoration procedure including instrumentation, assisting, and preparations indicated.
- 14. Demonstrate the correct placement and wedging of an toffelmire retainer and matrix band.
- 15. Identify the various types of aesthetic restorations including instrumentation, placement and preparations indicated.
- 16. Identify instruments, including GV Blacks Instrument formula; explain their use and care required in the dental practice.
- 17. Given a specific procedure, assemble an accurate and complete patient treatment tray set-up.
- 18. Demonstrate the care of the handpiece and the placement and removal of various types. List in writing the types of handpieces, attachments and their care.
- 19. Demonstrate the role of the dental assistant in loading/transfer retrieval and unloading an anesthesia syringe and application of topical anesthetic.
- 20. Discuss the history of dentistry and significant contributors to the field.
- 21. Identify the professional organization of the dental assistant and the changes of the professional life of the dental assistant, pertaining to state and national licensing. Demonstrate knowledge of the state dental practice act and scope of practice

## Lecture Content

Operatory Equipment dental unit dental chair dental stools dental instrument and supplies cabinet oral evacuation systems maintenance Four handed, Sit down Dentistry history dental equipment criteria Seating the Dental Health Team position of patient position of operator position of assistant adjustment of equipment Areas of Activity operators area assistants area transfer zone static zone Instrument Transfer eruption cycles pen palm palm thumb Patient Reception operatory preparation greeting the patient seating the patient dismissing the patient Oral Evaluation suction tip placement retraction Assisting with Oral Examination and Treatment Planning patient history, privacy and HIPAA considerations radiographs and study casts oral examination charting cavity classification terminology symbols procedure Sterilization Methods OSHA regulations and dental-related environmental hazards chemicals steam autoclave Instruments identification of hand and rotary handpiece formulas classification sharpening Tray Set up instruments use Anesthesia Administration syringes aspirating non aspirating needles disposable anesthetic carpals topical anesthesia clinical application transfer of syringe safety procedures disposable procedures OSHA mandated reporting and care of needle stick Rubber Dam Procedure uses armamentarium application four handed placement two handed placement Amalgam and Permanent Restorative tray set up assistants role responsibilities of the assistant matrix placement band selection toffelmire adaptive measures wedge selection and placement Discuss pre-operative and post-operative instructions Aesthetic Restoration procedure tray set up assistants role responsibilities of the assistant Discuss pre-operative and post-operative instructions History of Dentistry 5,000 B.C. to present Organizations of Dental Profession structure and function national, state, and local legal aspects and ethics

## Lab Content

Identify the principles and demonstrate the operation, use and maintenance of dental equipment routinely used in general practice in

accordance with the manufacturers direction. Demonstrate the principles of four-handed dentistry, appropriate ergonomics, work simplification and areas of activity. Demonstrate seating the health team in their position. Demonstrate proficiency in all steps of instrument transfer. Prepare operator, greeting the patient, seat and dismiss the patient. Demonstrate correct use of the oral evacuation system. Chart obvious carious lesions, missing teeth, existing restorations, periodontal measurements and understand treatment plan protocols. Demonstrate accurate completion of a patient health history and chart components utilizing HIPPA standards. Correctly use and chart with GV Blacks cavity classifications Demonstrate compliance to OSHA regulations that govern dentistry while completing chairside assisting/patient care functions. Demonstrate the procedure for waste disposal as identified by OSHA. Demonstrate correct treatment room tear down, disinfection and set up for patient care. Demonstrate disinfection and sterilization of instruments according to OSHA Infection Control protocols. Demonstrate understanding of basic instrumentation, hand cutting instruments and basic tray set up Demonstrate understanding of restorative instrumentation and tray set ups: Amalgam, Composite and Permanent procedures Demonstrate ability to place and remove PPE according to OSHA Infection Control protocols. Demonstrate ability to appropriately handle, use and sterilize dental handpieces and rotary instruments. Demonstrate ability to correctly set up the anesthetic syringe, needle and anesthetic solutions. Demonstrate correct placement of topical anesthetic on typodont Demonstrate correct placement of rubber dam procedure. Set up a typodont and benchmount according to instructor directions.

## Method(s) of Instruction

- Lecture (02)
- DE Live Online Lecture (02S)
- Lab (04)
- DE Live Online Lab (04S)

## Instructional Techniques

1. Theory:
  - a. Lecture
  - b. Guest speaker
  - c. Field trips
  - d. Video/Digital presentations
  - e. Reading assignments
2. Laboratory instruction
  - a. Demonstrations by instructor and return demonstration by students of chairside skills
  - b. Role playing by students

## Reading Assignments

Students are expected to spend a minimum of two hours outside of class in preparation of each hour of class.

## Writing Assignments

1. A portion of the exams and quizzes include short answer.
2. Completion of forms which include patient information (name, age, DOB...) vital signs and other parameters. such as: medical and dental history.
3. Proficiency demonstrations include several evaluated "practicum" applications where students must demonstrate laboratory skills (see student evaluation section).
4. Completion of laboratory assignments and student workbook and course materials packet

## Out-of-class Assignments

Appropriate outside assignments include assigned readings in texts, outlining text material, and reviewing for exams.

## Demonstration of Critical Thinking

1. A portion of the exams and quizzes include short answer.
2. Completion of forms which include patient information (name, age, DOB...) vital signs and other parameters. such as: medical and dental

history.

3. Proficiency demonstrations include several evaluated "practicum" applications where students must demonstrate laboratory skills (see student evaluation section).
4. Completion of laboratory assignments and student workbook.

## Required Writing, Problem Solving, Skills Demonstration

1. A portion of the exams and quizzes include short answer.
2. Completion of forms which include patient information (name, age, DOB...) vital signs and other parameters. such as: medical and dental history.
3. Proficiency demonstrations include several evaluated "practicum" applications where students must demonstrate laboratory skills (see student evaluation section).
4. Completion of laboratory assignments and student workbook.

## Textbooks Resources

1. Required Boyd Bartolomucci, Linda R.. Dental Instruments A Pocket Guide, latest ed. St. Louis: Elsevier Saunders, 2012
2. Required Bird, D., Robinson, D.. Modern Dental Assisting , latest ed ed. St. Louis: Elsevier Saunders, 2014
3. Required Bird, D., Robinson, D.. Modern Dental Assisting Student Workbook, latest ed ed. St. Louis: Elsevier Saunders, 2014

## Manuals Resources

1. Myers, Joy L. DA 110 Course Materials Packet, Printed by OCC Bookstore for student purchase , 08-29-2013