UNIVERSITY OF ARKANSAS
PULASKI TECH

# Assessment Report:
# 2019-2020:
## DEN 1404 Chairside Assisting I

1. Name of individual compiling report: *Shannon Burchfield*

2. Date of submission: *October 1, 2020*

3. Is the assessment plan (*Check or highlight one*)

☐ an initial plan for the program ☒ a revision of an old plan ☐ unaltered from previous year

# Course-Level Learning Outcomes-

## 1. What are the Course-Level Outcomes (CLOs)?

The following Course-Level Outcomes are for DEN 1404 Chairside Assisting I

1. Describe the care and maintenance of the equipment attached to or part of the dental unit and demonstrate the use of such equipment.
2. Explain the use and maintenance of the analgesia machine and distinguish between the Nitrous and Oxygen tanks.
3. Describe bleeding the moisture jet of the air compressor and list two items that operate on compressed air.
4. Identify the oral evacuation system and saliva ejector and demonstrate the maintenance of both.
5. Identify the various cabinets in the lab area, work in an assigned group to arrange supplies in a specified cabinet and indicate the location of those particular supplies.
6. Utilize proper sterilization and disinfection techniques of cabinets and instruments.
7. Identify names and numbers of various instruments selected by the instructor from this unit instrument list: Describe their function and assemble into instrument set-ups for procedures.
8. Describe the use of Arkansas flat and mounted stones for instrument sharpening.
9. Practice attaching wheels, disks and stones to a mandrel.
10. Differentiate between low speed, high speed and air driven turbine handpieces. Describe lubrication and sterilization of the handpieces.
11. Group various burs into like shapes, name the group and identify as friction grip, latchtype or straight.
12. List the six basic shapes of burs and give the function of each as well as identify by number.
13. Explain the cleaning and sterilization of carbide and diamond burs.



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14. Describe the mandrel and differentiate between the screw type and snap on.
15. Distinguish between mounted and unmounted stones.
16. Demonstrate air syringe maintenance.
17. Demonstrate activating the rotary instruments through use of the rheostat.
18. Demonstrate attaching the contra and right angle to the handpiece.
19. Practice aseptic techniques at all times in the clinical area.
20. Describe in a written report the principles of 4-6 handed dentistry and the designated zones of operation.
21. Seat and position patients
22. Properly position the operator's stool, assistant's stool and work cart.
23. Demonstrate with other students the grasp, delivery and receiving of hand instruments.
24. Demonstrate placing the HVE tip in various assigned area of the mouth.
25. Prepare a tray set up and assist with an oral exam including medical and dental history.
26. Demonstrate taking and recording vital signs: temperature, pulse, respiration and blood pressure.
27. Prepare a tray set up and assist with topical and local anesthetic administration.
28. Demonstrate loading and delivery of the anesthetic syringe.
29. Define Nitrous Oxide and its relationship to anesthesia.
30. Identify in a handout the component parts of the analgesic apparatus.
31. List in a written report, the nine indications and seven contraindications for the use of nitrous oxide analgesia.
32. List, in a written report, the procedure to clean and sterilize the nitrous oxide nose piece.
33. List, in a written report, the 8 guidelines for administration, 4 stages and 4 inhalation agents used for general anesthesia.
34. List, in a written report, the 2 agents used for intravenous anesthesia.
35. List the 5 preoperative instructions for general anesthesia.
36. Describe the term recovery period.
37. Describe, in a written report, the procedure for respiratory failure during the use of general anesthesia.
38. Prepare tray set ups for: amalgam restoration, esthetic restoration, and crown and bridge preparation procedures.
39. Demonstrate the placement and removal of matrix bands and dental dams.
40. Demonstrate the knowledge of 4-6 handed dentistry by assisting with the following procedures:
Monitoring nitrous oxide
Amalgam restoration


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Esthetic restoration
Crown and bridge preparation

## 2. Which CLOs were addressed for this academic year? (2019-2020)

1. Identify names and numbers of various instruments selected by the instructor from this unit instrument list: Describe their function and assemble into instrument set-ups for procedures.
2. Define Nitrous Oxide and its relationship to anesthesia.
3. Demonstrate taking and recording vital signs: temperature, pulse, respiration and blood pressure.

## 3. Which CLOs are being addressed in your assessment plan next academic year? (2020-2021)

1. Demonstrate with other students the grasp, delivery and receiving of hand instruments.
2. Demonstrate placing the HVE tip in various assigned area of the mouth.
3. Demonstrate the placement and removal of matrix bands and dental dams.

## 4. Explain the assessment cycle.

Once program goals and outcomes are set, the material is presented to the students. Competency evaluations are given and each student is assessed using what they have learned through lecture, labs, and instructor review. After being assessed, a review of each student's exam or competency will show if the material was comprehended by each student. This will let me know how I may need to address the material in the future and if any changes will need to be made to meet the needs of the students.
Since this is our first year documenting our course learning outcomes, we will look to add new data in the upcoming years.


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## 5. What are the assessment methods? Are they direct or indirect?

The assessment methods used for Chairside Assisting I are direct. Each competency requires a passing rate of 70% before a student can move forward without having to retake any classes.

## 6. What are the assessment goal(s)?

The assessment goals for Chairside Assisting include:

- Graduates will perform dental assisting responsibilities and related office and laboratory procedures under the direct supervision of the dentist.
- Graduates will function as a valued team member, exhibiting professionalism and ethics.
- Graduates will demonstrate proficiency in dental assisting skills and competencies to meet registration requirement with the Arkansas State Board of Dental Examiners and qualify for the Dental Assisting National Board Exam.

## 7. What were the findings for this academic year? (2019-2020)

For the 3 CLO's listed above for the academic year 2019-2020 the results are as follows:

1. Identify names and numbers of various instruments selected by the instructor from this unit instrument list: Describe their function and assemble into instrument set-ups for procedures. The pass rate was 100% with an average score of 94.61%

2. Define Nitrous Oxide and its relationship to anesthesia. The pass rate was 94% with an average score of 87.61%

3. Demonstrate taking and recording vital signs: temperature, pulse, respiration and blood pressure. The pass rate was 100% with an average score of 99.83%

## 8. What is your analysis of the findings?

The above findings are a representation of students' overall performance. Based on these numbers, our program is graduating students that are able to perform their very best as dental assistants in dental offices.



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## 9. What is the action plan for the next academic year? (2020-2021) Explain.

Communicating with the dental community, students and graduates affect our action plan for the coming year including:

- Continuing education
- Taking suggestions from former students and Clinical Dentists
- Staying updated on any new CODA materials or changes

However, the following CLO's are initially planned for the coming year:

1. Demonstrate with other students the grasp, delivery and receiving of hand instruments.
2. Demonstrate placing the HVE tip in various assigned area of the mouth.
3. Demonstrate the placement and removal of matrix bands and dental dams.