

# Dakota County Technical College

## DENT 1260: Expanded Functions

### A. COURSE DESCRIPTION

Credits: 5

Lecture Hours/Week: 3

Lab Hours/Week: 2

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course prepares the assistant to perform all functions legally performed by a registered dental assistant (RDA) according to the Minnesota Dental Practice Act. This course covers the following expanded functions: alginate impressions for opposing models and study casts with bite registration, mechanical polishing of the clinical crowns, application of topical fluoride, rubber dam applications and removal, application of topical medications, orthodontic skills of preselecting orthodontic bands, removing and replacing ligature ties, and placement and removal of elastic separators. Also included are suture removal, placement and removal of periodontal dressings, adaptation of temporary crowns, cement removal, pit and fissure sealants, enamel etching, removal of bonding material, and nitrous oxide monitoring. Prerequisites: Admission to Dental Assisting Program or instructor approval

**B. COURSE EFFECTIVE DATES:** 02/26/1998 - Present

**C. OUTLINE OF MAJOR CONTENT AREAS**

**D. LEARNING OUTCOMES (General)**

1. Review patient medical and dental histories
2. Demonstrate the removal of excess bonding material with rotary instruments
3. Provide pre and post operative instructions prescribed by a dentist
4. Indicate which duties are legal for the dental assistant to perform
5. Identify the uses of alginate impressions
6. Indicate instructions given to the patient while taking a mandibular/maxillary impression
7. Indicate common anomalies to examine before taking an alginate impression
8. Indicate rules to follow when selecting a proper tray size for alginate impression
9. Select anatomical structures that should be included in mandibular/maxillary impression
10. Demonstrate obtaining maxillary and mandibular alginate impressions for study casts
11. Indicate uses for bite registrations
12. Demonstrate pouring, separating and trimming maxillary and mandibular casts for case presentation
13. Identify indications/contraindications for coronal polishing
14. Identify which stains can and cannot be removed by oral prophylaxis
15. Identify classifications of stain
16. Indicate characteristics of abrasive particles
17. Indicate factors relating to methods of abrasive application that will increase rate of abrasion
18. Indicate characteristics of the polishing stroke that should be used during a mechanical polishing procedure
19. Indicate characteristics of a proper fulcrum while performing a prophylaxis
20. Demonstrate operator/patient positions for polishing specific areas in the mouth
21. Demonstrate coronal polishing on patients
22. Demonstrate plaque control instruction to a patient
23. Demonstrate the toothbrushing technique that best fits that patient's needs
24. Demonstrate the proper technique of cleaning a removable appliance
25. Compare the effects and benefits of fluoride
26. List the sequence of steps to follow when applying a topical fluoride
27. Demonstrate the application of topical fluoride using a fluoride gel and trays
28. Indicate the proper instructions given to a patient after a topical fluoride treatment
29. Select topical medications that can be applied by the registered dental assistant
30. State the uses of a topical anesthetic
31. Identify the site of topical anesthetics for giving injections
32. Indicate the correct application technique of topical anesthetics
33. Demonstrate the placement of topical anesthetic prior to an injection of local anesthesia
34. List four reasons for using a rubber dam
35. Indicate which dental treatments are performed with a rubber dam
36. Indicate the rule for anterior/posterior teeth rubber dam isolation
37. Identify the parts of a rubber dam clamp
38. List the steps in preparing the rubber dam
39. Demonstrate placement, inversion and removal of rubber dam
40. Identify indications and contraindications for the use of pit and fissure sealants
41. Indicate the uses for pit and fissure sealants
42. Select the procedural steps of applying pit and fissure sealants
43. Demonstrate the application of pit and fissure sealants
44. Identify the principals of excess cement removal

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45. List the instrumentation for cement removal
46. Demonstrate the proper finger rest when performing cement removal with the U15 scaler
47. Demonstrate the use of the U15 scaler to remove excess cement
48. Identify each category of orthodontic treatment with the appropriate description
49. Identify commonly used orthodontic instruments and items
50. Demonstrate the placement and removal of orthodontic separators
51. Identify procedures used in the placement and removal of ligature wires/elastics
52. Demonstrate the placement and removal of the ligature wires and elastics
53. Identify the procedures used during the placement and removal of orthodontic separators
54. Demonstrate the steps of direct bonding of orthodontic brackets
55. Identify the characteristics involved in preselection of orthodontic bands
56. Demonstrate the ability to preselect posterior orthodontic bands
57. Identify the steps for the removal of excess bonding, without loosening the appliance
58. List the steps in mixing eugenol-type and non-eugenol type periodontal surgical dressings
59. Identify the steps for placement and removal of periodontal dressings
60. Demonstrate mixing eugenol-type and non-eugenol type periodontal surgical dressings
61. Demonstrate the correct application and removal of a periodontal dressing.
62. List instrumentation for placement and removal of sutures
63. Identify the steps for suture removal
64. Demonstrate the proper technique for the removal of sutures
65. Describe the use of nitrous oxide-oxygen relative analgesia in dentistry
66. Describe the use of a scavenging system when using nitrous oxide in the dental office
67. Demonstrate the procedure for administering nitrous oxide relative analgesia
68. Demonstrate the monitoring of nitrous oxide-oxygen relative analgesia on a patient
69. List the procedure for the preliminary adaptation of an aluminum temporary crown
70. List the procedure for adaptation of an acrylic temporary crown
71. Demonstrate the fabrication of a temporary crown
72. Demonstrate the removal of a temporary crown
73. List armamentarium to dry root canals and place temporary materials
74. Demonstrate procedure for drying canals
75. Demonstrate placement of a temporary root canal restoration
76. Demonstrate the removal of a temporary root canal restoration
77. Demonstrate proper verbal and nonverbal communication with patients in the dental clinic
78. Demonstrate the proper armamentarium for all procedures in the dental clinic
79. Demonstrate taking and recording of the patients vital signs
80. Demonstrate competence in the personal use of protective barriers; gloves, masks and protective eyewear
81. Demonstrate competence in operatory clean up using the infection control protocol
82. Demonstrate competence in operatory preparation using the infection control protocol
83. Demonstrate competence in the preparation of instruments for sterilization

#### **E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted