COURSE NUMBER & TITLE:  DAS1525: Expanded Duties 1
CREDITS:  3 (1 Lec / 2 Lab)
PREREQUISITES:  Admittance into Dental Assisting Program or current Certification

CATALOG DESCRIPTION:
Expanded Duties 1 covers skill development and knowledge of the legal Expanded Duties for Dental Assistants in the State of Minnesota.

OUTLINE OF MAJOR CONTENT AREAS:
1. Minnesota expanded functions
   A. Minnesota Board of Dentistry Exam requirements
   B. Hibbing Community College clinical requirements
   C. Hibbing Community College clinical evaluation forms
   D. Minnesota licensed Dental Assistant legalities
2. Oral prophylaxis
3. Coronal polish
   A. Anatomical crown
   B. Clinical crown
4. Deposits A. Soft
   1. Acquired pellicle
   2. Plaque
   3. Materia alba
   4. Food debris
   A. Hard: calculus
   B. Stains
      1. Extrinsic
      2. Intrinsic
         a. Endogenous
         b. Exogenous
5. Polishing Agents
   A. Abrasives
      1. Particle grit
      2. Rate of abrasion
         a. Amount of abrasive used
         b. Amount of pressure
         c. Amount of speed
   3. Commercial preparations
   4. Flour of pumice
5. Silex (silicone dioxide)
6. Zirconium Silicate

B. Polishing pastes
1. Tin oxide
2. Chalk (whiting)

6. Coronal Polish armamentarium

A. Basic set-up
B. Handpiece
1. Prophy angle
2. Contra angle
   a. Prophy cups
   b. Bristle brushes
3. Operation
   a. Grasp
   b. Fulcrum
   c. Speed

C. Polishing procedure
1. Operator positioning
2. Patient position
3. Rotary instrument technique
4. Interproximal cleaning (flossing)
5. Care of dental appliances
6. Sterilization and aseptic technique

D. Polish evaluation
1. Plaque and stain removal
2. Soft tissue evaluation

7. Fluoride
A. Systemic
1. Forms
   a. Pill
   b. Chewable tablet (dual action)
   c. Rinses
2. Application
   a. Swallow
   b. Chew and rinse
   c. Rinse

B. Topical
1. Forms
   a. Rinse
   b. Gel
   c. Foam
   d. Varnish
2. Application
a. Tray  
b. Rinse  
c. Paint on  

C. Evaluation  
D. Safety  
   1. Patient  
   2. Operator  

8. Pit and Fissure Sealants  
   A. Etchant (phosphoric acid)  
      1. Liquid  
      2. Gel  
   B. Sealant  
      1. Chemical cure  
      2. Light cure  
   C. Sealant procedure  
   D. Evaluation  

9. Rubber Dam  
   A. Purpose  
   B. Armamentarium  
      1. Rubber dam material  
         a. Latex  
         b. Non-latex  
      2. Rubber dam stamp or template  
      3. Rubber dam frame  
         a. Young frame  
         b. U-frame  
         c. Ostby frame  
      4. Rubber dam punch  
      5. Rubber dam clamps  
      6. Rubber dam forceps  
      7. Rubber dam napkin  
      8. Ligatures  
   C. Rubber dam placement  
      1. Variations  
         a. Missing teeth  
         b. Use of anterior clamp  
         c. Use of Wedjets  
      2. Alternative for latex-hypersensitive patients  
   D. Removal of rubber dam  
   E. Evaluation  

10. Topical medications  
    A. Cavity varnishes  
    B. Topical anesthetics
C. Antimicrobial rinse
D. Hydrogenating agents
E. Desensitizing agents

COURSE GOALS/OBJECTIVES/OUTCOMES:
1. Students will display and demonstrate clinical professionalism.
2. Students will identify Minnesota Expanded Duties, MN Licensure exam requirements and state MN licensed dental assistant legalities.
3. Students will identify oral prophylaxis/coronal polishing purpose and use.
4. Students will list armamentarium of coronal polishing and identify deposits, stains, abrasives and polishing agents.
5. Students will perform coronal polishing technique on typodont.
6. Students will identify types of fluoride and demonstrate fluoride procedure on typodont.
7. Students will identify armamentarium and correctly apply Pit and Fissure Sealants on typodont.
8. Students will identify armamentarium and correctly apply Rubber Dam on typodont.

MNTC GOALS AND COMPETENCIES MET:
N/A

HCC COMPETENCIES MET:
Working Productively and Cooperatively
Communicating Clearly and Effectively
Thinking Creatively and Critically
Social/Civic Responsibility

STUDENT CONTRIBUTIONS:
Attendance is crucial in this class. The student is expected to attend all lectures and working sessions, participate and implement input into class discussions, and hand in lab projects and outside assignments when due.

STUDENT ASSESSMENT SHALL TAKE PLACE USING INSTRUMENTS SELECTED/DEVELOPED BY THE COURSE INSTRUCTOR.

Curriculum Committee Approval Date: May 1, 2018

AASC APPROVAL DATE: May 9, 2018
REVIEW DATE: May 2023