Sinclair Community College
444 E. Third St.
Dayton, OH 45402

Master Syllabus

DEH 2507 - Lab for Dental Materials

Division: Health Sciences

Department: Dental Health Sciences

Credit Hour Total: 0.0

Other Prerequisite(s): Restricted to Majors

Date Revised: October 2013

Course Description:

Laboratory and clinical training in Dental Materials. Laboratory sessions give the student skill development for correctly using dental materials with an emphasis on safety and infection control.

General Education Outcomes:

- Oral Communication Competency
- Critical Thinking/Problem Solving Competency

Course Outcomes:

Impression and Gypsum Materials
Demonstrate the proper mixing of impression materials, apply the clinical technique for the appropriate mixing and handling of alginate impressions on patients, use gypsum to properly pour an acceptable study model and correctly trim the model on a model trimmer.

Assessment Method: Performance appraisals
Performance Criteria: 80% or higher achieved

Moisture Control and Isolation
Demonstrate isolation techniques used to decrease moisture during a dental procedure, including cotton roll isolation and rubber dam application and removal.

Assessment Method: Performance appraisals
Performance Criteria: 80% or higher achieved

Direct Restorations, Margination and Debonding
Place an amalgam and a composite restoration on a typodont, and perform margination, amalgam finishing and polishing, and debonding procedures in a laboratory setting.

Assessment Method: Performance appraisals
Performance Criteria: 80% or higher achieved

Uses of Dental Cements and Adhesive Materials
Mix and prepare dental cements for cementation, as a base, liner, or temporary direct restoration.

Assessment Method: Performance appraisals
Performance Criteria: 80% or higher achieved

Infection Control
Demonstrate effective infection control for handling impressions, dental appliances and dental procedures that occur in the operatory and are transferred between the dental operatory and the dental lab.

Assessment Method: Performance appraisals
Performance Criteria: 80% or higher achieved

Dental Sealants
Demonstrate the steps in the successful application of dental sealants.

Assessment Method: Performance appraisals
Performance Criteria: 80% or higher achieved

Tooth Whitening and Bleach Tray
Perform the steps in the construction of a bleach tray and identify the essential elements of home care instruction for the patient using a professionally supervised, patient applied technique.

Assessment Method: Performance appraisals
Performance Criteria: 80% or higher achieved

Outline:

Taking alginate impressions and mixing elastomeric impression materials
Mixing gypsum and fabrication and trimming of study models
Mixing dental cements
Moisture control using cotton rolls and application and removal of rubber dam
Dental sealant application
Placement of Amalgam and composite material, tofflemire band application
Margination and debonding techniques
Tooth whitening procedures and fabrication of a bleach tray