

SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

ACADEMIC AFFAIRS

Course Number: DAST 106 Department: Dental Assistant

Course Title: Dental Materials1 Semester: Spring Year: 1999

Objectives/Competencies

Course Objective	Competencies
<ol style="list-style-type: none">1. Identify the primary function of the Council of Dental Materials, instruments and equipment.2. Identify the properties of dental materials and how they effect the selection for use in dentistry.3. Identify the importance of the properties of dental materials for clinical performance.4. State the OSHA guidelines for handling hazardous substances in the workplace.5. List the precautions required for handling hazardous substances in the workplace.6. State the function and properties of dental amalgam forms in dentistry and demonstrate the ability to manipulate dental amalgam forms.7. State the functions and properties of dental amalgram forms in dentistry and demonstrate the ability to manipulate dental amalgam forms.8. State the function and properties of dental cements that include zinc phosphate, zinc-oxide, eugenol, (EBA	<ol style="list-style-type: none">1. Interpret obtained facts through review, identification, definition and explanation.2. Demonstrate the expertise and competency applied to the clinical practical skill.

Course Objective	Competencies
<p>Cement), zinc silicone phosphate, resin sealants, polycarboxylate, glass ionomer cements, cavity liners, dentin sealants and cavity varnishes.</p> <p>9.Demonstrate the ability to manipulate the cements.</p> <p>10.State the function and properties of impression materials which include irreversible hydrocolloids, impression compound, surgical paste, elastomeric impression materials such as polysulfide, silicone, polysiloxane and polyether and demonstrate the ability to manipulate the impression materials.</p> <p>11.State the function and properties of glass ionomers and demonstrate the ability to manipulate the materials.</p> <p>12.List the classification and state the function and properties of wax products that include inlay casting wax, baseplate wax, occlusal rim, preformed wax, sticky wax, boxing wax, utility wax, casting wax, bit wafers occlusal indicator wax, and corrective impression wax and demonstrate the ability to manipulate the waxes.</p> <p>13.Identify the classification, function and properties of gypsum products.</p> <p>14.Demonstrate the ability to manipulate gypsum products.</p> <p>15.Identify the process of fabricating cast metal restorations such as inlays and crowns.</p> <p>16.Describe the utilization of gypsum-bonded investments for casting gold alloys.</p> <p>17.Identify the functions and properties of synthetic resins in dentistry such as temporary crowns and bridges, denture base resins, custom impression trays, orthodontic splints</p>	

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<p>and space retainers.</p> <p>18. Demonstrate the ability to construct a custom impression tray.</p> <p>19. State the functional properties of a pit and fissure sealant materials and demonstrate the ability to prepare and apply the material.</p> <p>20. State the utilization of metals in dentistry which include denture bases, partial structures, implants, bridge work and crowns.</p>	