

Course Competency

DES 0205 Dental Radiology

Course Description

This course is designed to provide students with a study of the principles of radiology, theory, and operation of X-ray equipment, darkroom procedures, film storage, and the hazards and precautions involved in dental radiology.

Course Competency	Learning Outcomes
<p>Competency 1:The student will demonstrate knowledge of Radiation Health and Safety Standards processing by: 1. Explain Radiation Health and Safety Standard and OSHA guidelines while exposing and processing diagnostic radiographs. 2. Explain the dental x-ray machine and function and operation as related to patient safety. 3. Explain the biological effects of x-rays. 4. Explain the ALARA concept. 5. Demonstrating appropriate infection control considerations and protocols for radiographs.</p>	<p>1. Critical thinking</p>
<p>Competency 2:The student will demonstrate knowledge of radiography exposure and processing by: 1. Summarizing the how to expose and process diagnostic intra-oral radiographs. 2. Summarizing the how to expose and process diagnostic extra-oral radiographs. 3. Explain how to assess patient radiographic needs. 4. Demonstrate techniques for bitewings (horizontal and vertical), occlusal films and periapical including accepted methods with an emphasis on paralleling techniques for periapical, 5. Explain the supplementary techniques and patient management including endodontic, localization, edentulous, pedodontics, and techniques for difficult anatomy and patients with disabling conditions.</p>	<p>1. Critical thinking</p>

Competency 3: The student will demonstrate knowledge of mounting dental radiographs by: 1. Explaining how to mount, label, and document radiographs exposures accurately. 2. Demonstrate the ability to self-critique work and discuss improvement and corrections needs. 3. Identify the different forms of dental radiograph mounts.	1. Critical thinking

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