Radiation Safety Training for Veterinary Office Personnel

Course Description:
This course was designed to provide the participant with a foundation of radiation safety and protection and up-to-date information regarding equipment components.

Course Length: 2 hours

CE Credits: Veterinary

Contact Information:

Radiologic Education Center
Phone: 763-717-8349 Please leave a message
E-mail: smcclanahan@LearnAtREC.com

Course Outline:

I. Basic Radiation
   a. Define Ionizing Radiation
   b. Identify the sources of ionizing radiation
   c. Review units of dose and measurements

II. Veterinary Equipment
   a. General x-ray-analog, CR and DR
   b. Portable devices
   c. Dental
   d. C-arm/fluoro
   e. CT and CBCT

III. Equipment Components
   a. Anode, cathode and the parts of the tube
   b. Image intensifiers
   c. Image receptors
   d. Processing
IV. Radiation Safety
   a. ALARA
   b. What is a Radiation Safety Officer (RSO)
   c. Quality Assurance Program (QAP)
   d. Biological effects of radiation exposure
   e. Measures to reduce and minimize exposure
   f. Shielding placards
   g. Protective garments
   h. Technique chart requirements and their value
   i. Personal monitoring

Course Objectives:

I. Basic Radiation
   a. Define ionizing radiation
   b. Recognize sources of ionizing radiation
   c. Understand US measurements and their relative international equivalents

II. Veterinary Equipment Overview
   a. Recognize various types of x-ray equipment that might be found in a veterinary setting

III. Equipment Components
   a. Recognize the parts of an x-ray tube
   b. State the differences between image receptors used in analog, CR and DR systems

IV. Radiation Safety
   a. Know the ALARA concept
   b. Recognize the RSO
   c. Identify measures and methods to reduce radiation exposure
   d. Understand the importance of protective garments
   e. Personal monitoring
   f. Be aware of the biological effects of radiation exposure
   g. Explain what a Quality Assurance Program (QAP) is and who is responsible for creating and maintaining the document