



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