



Radiation Safety Officer Training

Course Description:

This course was designed to provide participants with a review of radiation safety and up-to-date information of the duties and responsibilities of the Radiation Safety Officer as outlined in the Minnesota Radiation Rules Chapter 4732.

Course Length: 3 hours

CE Credits (3): ASRT, Chiropractic, Dentistry, Veterinary

REC Contact:

Radiologic Education Center Education Coordinator: Sue McClanahan, R.T.(R)

Phone: 763.267.6903 Please leave a message

Email: smclanahan@LearnAtREC.com

Course Outline:

I. Radiation Safety

- a. Types of Radiation
- b. Biologic effects of ionizing radiation
- c. Units of measurement
- d. Required knowledge of radiation exposure to personnel and public

II. Radiation Safety Officer Qualifications, RSO Agreement

- a. Who is qualified and why
- b. Required Training
- c. Required RSO Agreement
- d. RSO Training required

III. Radiation Safety Officer Responsibilities

- a. Establish/ review and monitor quality assurance program
- b. Establish/review and monitor safety practices
- c. Perform required documentation
- d. Establish/review and monitor personnel dosimetry devices

IV. Test and Evaluation

Course Objectives

I. Radiation Safety

Upon completion the participant will be able to identify the:

- a. Nature of ionizing radiation
- b. Types of biological effects of ionizing radiation
- c. Principal sources of ionizing radiation
- d. Quantities and units used for measurement of radiation
- e. Devices used to monitor personnel monitoring devices
- f. Basic principles of reducing exposure to radiation
- g. Cardinal principles of radiation safety
- h. Techniques used to minimize radiation exposure to patients and personnel
- i. Precautions that should be taken to minimize potential fetal exposures
- j. Recommended management procedures for pregnant radiation workers and the pregnant patient
- k. ALARA concept

II. Radiation Safety Officer Responsibilities

Upon completion the participant will be able to identify the:

- a. Requirements of the quality insurance program
- b. Required radiation safety training for all personnel
- c. Required audits, radiation surveys, calibrations and equipment performance evaluations
- d. Required documentation of activities of the Radiation Safety Officer

III. Radiation Safety Officer Qualifications and the RSO Agreement

Upon completion the participant will be able to identify:

- a. Who qualifies to be a Radiation Safety Officer
- b. RSO relationship to the Registrant
- c. Content and significance of the RSO Agreement

Recommended Textbooks or Media

1. Principles of Radiographic Imaging: An Art and a Science, 4th Edition, by Richard R. Carlton and Arlene M. Adler, Thomson Delmar Learning's
2. Radiologic Science for Technologists: Physics, Biology and Protection, 8th Edition, Stewart C. Bushong, Elsevier Mosby
3. *Merrill's Atlas of Radiographic Positioning and Procedures*, 3-Volume Set, Eugene D. Frank MA RT(R) FASRT FAEIRS, Bruce W. Long MS RT(R)(CV) FASRT, Barbara J. Smith MS RT(R)(QM) FASRT FAEIRS

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