



*Successful Device Approvals*

## Summary of Course Content

### IRSC General Radiation Safety Training: Radiation Machines

This course is a general overview of the use of x-ray equipment, and is appropriate for the use of medical, dental, veterinary, analytical, and industrial x-rays use. This course does not meet the requirements for training Radiologic Technologists (RTs) in taking xrays, nor is it designed for industrial radiographers requiring detailed training under license conditions.

- What is Radioactivity?
- Review of Atomic Structure
- Ionizing vs. Non-Ionizing Radiation
- X-ray Properties
- Units of Dose/Dose Equivalent
- Biological Effects of Radiation
- Principles of Radiation Safety (ALARA)
- Radiation Safety Program
- Personal Protective Equipment
- Dosimetry
- Access Control
- Performing Surveys
- Types of X-ray Machines
- Other Types of Radiation Machines
- Safety Features Regulations/Workers Rights & Responsibilities

The course and quizzes can be completed in 1-2 hours, depending upon the trainee's familiarity with the subject matter.

**118 Taber Ave., 3<sup>rd</sup> Floor, Providence, RI 02906 USA**  
**Ph. 877.266.0794 (U.S.) 781.767.2176 (outside U.S.)**  
**Fax: 781.207.0453 [www.radiationsafetyconsultants.com](http://www.radiationsafetyconsultants.com)**