



RSO Course Outline

Math and Physics Review

- Scientific Notation
- Algebra Review
- Basic Calculator Operation
- Nuclear Structure
- Forces in Nature
- Fundamental Properties

Radiation and Radioactivity

- Definitions and Units
- Half-life and Decay
- Interaction of Radiation with Matter
- Radiation Dose
- Background Radiation Exposure

Biological Effects

- Cellular Effects
- Short-Term Effects
- Long-Term Effects

Radiological Hazards

- External radiation
- Protection methods
- Contamination

Detection and Measurement

- Basic Principles
- Detection Efficiency
- Counting Statistics
- Dose/Dose Rate Measurements
- Contamination Measurements
- Fixed Laboratory Instruments

Operational Program

- ALARA
- Procedures & Training
- Surveys, Posting and Labeling
- Dosimetry
- Leak Testing
- Instrument Calibration
- Record Keeping
- Waste Disposal
- "Declared Pregnant Woman" Requirements

Regulatory Agencies

- NRC/Agreement States – License Conditions, 10CFR20
- DOT – Transportation Requirements

RADIATION SAFETY OFFICER *training course*

Seabrook, New Hampshire
September 20th - 24th, 2021

Radiation Safety & Control Services, Inc.
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Course Description

This comprehensive 40-hour course provides students with a balance of technical and theoretical information along with practical applications of radiation safety. Fundamental concepts are presented in a logical progression, providing a sound basis for understanding the day-to-day requirements of the Radiation Safety Officer. An optional exam for RSO's whose programs require testing is provided along with a DOT exam. References from past students are available upon request.

The three instructors of the course are Certified Health Physicists with a combined 70 years of experience in their field. As RSCS principals, they operate a nuclear instrumentation calibration facility, an analytical measurement laboratory, and also perform consulting for Radioactive Material Licensees.

Continuing education credits have been approved by the American Academy of Health Physics (40 Continuing Education Credits), and the American Society of Radiologic Technologists (40 hours of Category A Continuing Education Credits) for the five-day RSO course.

Class Schedule

Classes will run **September 20th through September 24th 2021, 8:00 AM to 5:00 PM on Monday-Thursday, and 8:00 AM to 12:00 PM on Friday.** The RSO course will end at noon on Friday and an optional exam will be offered Friday afternoon. Optional evening sessions will be held on Tuesday and Thursday. Complimentary continental breakfast and



snack breaks and a catered luncheon will be provided daily, along with a social after class on Monday.

Registration and Accommodations

The fee for the course is \$1,495.00. Since enrollment is limited, early registration is advised. An early bird discount of \$100 will apply to all students who register and provide payment or purchase order for the course by August 20th 2021. Payment must be received in full no later than 15 business days prior to the start of the course. Registrations made after this period will be expected to be paid at time of registration. A full refund will be provided for course cancellations made within 3 days of enrollment. A \$200 fee will be applied to all cancellations received before 10 business days to the start of the course. No refunds will be given after that period.

Courses will be held at the RSCS Corporate Training Facility in Seabrook NH. Seabrook is a seaside New England town that offers proximity to several beautiful beaches, including the Hampton Beach resort area. Seabrook is also in close proximity to the charming and



historic seaport towns of Portsmouth, NH and Newburyport, MA. The course will occur as the summer season is starting, providing a variety of recreational opportunities for your enjoyment.

Course participants are responsible for their hotel accommodations. A block of rooms at the Holiday Inn in Seabrook NH has been held at a reduced rate of \$130 plus tax per night. Call direct at 603-474-1150. Remember to tell the Holiday Inn you are attending the RSCS course.

More Information

To register for the course online, or to contact us for additional information, visit us at radsafety.com or call us at 800-525-8339 x220.

About Us

Established in 1989, Radiation Safety & Control Services provides technical consulting, training and instrument support services to commercial nuclear, private industrial, medical, academic and governmental facilities. Services offered include:



Health Physics Consulting

- Management and Technical Support
- Radiation Safety Program Audits
- Groundwater Support
- Decommissioning Support HP Program Development
- License Applications and Amendments

Health Physics Software

- Radiation Safety Manager
- Decommissioning Cost Estimation
- Analytical Data Management System

Calibration & Analytical Lab

- ISO 17025 Instrument Calibration
- Full Service Repair Lab On Site
- Radioactive Source Leak Testing
- Radon Testing & Mitigation

Radiation Detection Equipment

- Radiation Detection Equipment Sales and Leasing
- Simulated Radiation Detection Equipment
- Radiation Safety Supplies