

RADIATION SAFETY INSTITUTE OF CANADA

Founded in 1980, the Radiation Safety Institute of Canada is an independent, national organization dedicated to promoting and advancing radiation safety in the workplace, in the environment and in the community. Our commitment to the principle of “good science in plain language®” underpins everything we do.

The Radiation Safety Institute of Canada is incorporated under the laws of Canada as a not-for-profit corporation and is also a registered charity.

INSTRUCTORS:



Curtis Caldwell, Ph.D., MCCPM

Dr. Caldwell, currently RSIC’s “Chief Scientist”, has over 25 years of experience as a Hospital Corporate Radiation Safety Officer, during which time he oversaw all aspects of medical radiation safety, including radiation protection in external beam radiotherapy, brachytherapy, unsealed source therapy, diagnostic nuclear medicine, diagnostic x-ray imaging and research uses of radionuclides. He has also provided radiation safety consulting services relating to a wide variety of uses of x-ray and radioactive materials to industrial and medical users across Canada.



Kathy Mah, M.Sc., FCCPM

Kathy Mah has over 30 years’ experience in the application of physics to medicine, Kathy’s clinical and research interest at the Odette Cancer Centre at Sunnybrook Health Sciences Centre and the Princess Margaret Cancer Centre has focused on radiation therapy of cancers. She has overseen the quality control and commissioning of high energy linear accelerators, Computer Tomography (CT) scanners, Positron Emission Tomography (PET)-CT Scanners, and various radiographic systems. She was an Assistant Professor at the University of Toronto, teaching radiation physics to generations of radiation oncology residents, medical physics residents, and radiation therapy technologists.



Dr. Ernest Osei, Ph.D., MCCPM, MCOMP

Dr. Osei is currently the Director of the Medical Physics Department and Radiation Safety Officer at the Grand River Regional Cancer Centre, Kitchener, Ontario. One of his research interests is radiation protection in radiotherapy and diagnostic imaging. He brings both a unique perspective and extensive experience in radiation shielding design to the course.

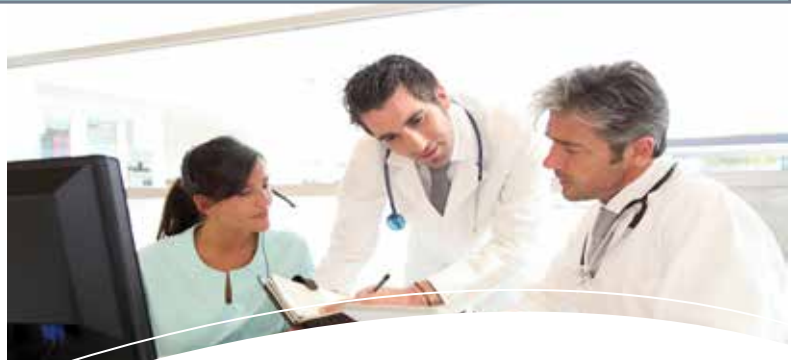


Radiation Safety Institute of Canada
Institut de radioprotection du Canada



Graduates eligible for **11 MPCEC hours**

Radiation Therapy Shielding Design
2-Day Course



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Radiation Therapy Shielding Design

COURSE DESCRIPTION

This **two-day Certificate Program** introduces shielding design principles and methods that will equip medical physicists with knowledge necessary to prepare successful CNSC submissions and to ensure that the proposed shielding design is optimized in terms of safety and cost. The course is delivered by medical physicists who are highly experienced in modern methods of designing radiation therapy shielding structures. Upon completion of this two-day program, course participants will be able to avoid many of the potential pitfalls in shielding designs. Medical Physics residents will be better prepared for questions related to radiation shielding in residency exams and medical physicists will be better prepared for radiation safety questions on Board exams.

TARGET AUDIENCE

Radiation oncology physicists and medical physics residents who have an interest in radiation safety and in the calculations required to design shielding for radiation therapy facilities.

SUBJECTS COVERED

- Regulatory requirements for shielding calculations
- High energy gamma and neutron interactions
- Shielding calculation formalism for medical linear accelerators
- Shielding calculation formalism for high dose rate brachytherapy
- Radiation safety issues with modern radioisotope therapies
- Canadian Nuclear Safety Commission security plan requirements for high activity sources
- Optimizing shielding: costs and benefits
- Radiation survey techniques and instrumentation
- Challenges in shielding: practical issues with examples
- Preparing submissions and communicating with regulators

EXPERIENCE THE RADIATION SAFETY INSTITUTE DIFFERENCE

All of the instructors at this course will be experienced, board-certified medical physicists with strong interest in radiation safety. Instructors do their best to not only convey information, but to ensure that the sessions are interactive and enjoyable for all.

COURSE PREREQUISITE

Course participants should have experience or training in medical physics as applied to radiation oncology.

Course Date and Location

Course date: April 11 - 12, 2019

Location: RSIC National Education Center,
Toronto, 165 Avenue Road, #300

Course Fee: \$895 + Tax

Other Courses We Offer

Radiation Safety Officer Course (RSO-1)

This five-day Certificate Program is designed to prepare participants to successfully assume the Radiation Safety Officer role at a workplace that uses radioactive materials or radiation devices under Canadian Nuclear Safety Commission Regulations.

Radiation Safety Officer Refresher Course (RSO-2)

This two-day course builds on your existing knowledge of radiation safety. Active exchange with our educators in advance of the course ensures course content tailored to your specific needs. It is designed to reinforce your understanding of regulations and the best practices. It is the regulator's expectations that active RSOs will update their training regularly.

CONTACT US TODAY



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