



Radiological Emergency Planning: Terrorism, Security, and Communication

July 28–August 1, 2014 • Boston, MA

This challenging program uses practical tools to prepare participants from all sectors to plan for and respond to radiological events, whether at the state, local, or individual facility level.

We bring together leaders in emergency planning to explore methodologies for creating comprehensive and integrated emergency response plans for radiological events. Drawing from decades of direct experience, Harvard School of Public Health faculty, guest speakers, and participants share practical tools and guidelines based on their successes and failures in preparing for, responding to, and communicating about radiological emergencies.

Participants examine criteria and requirements for creating an effective emergency plan, expand their ability to effectively communicate with the media and public during crisis situations, and medically manage casualties of a radiological incident.

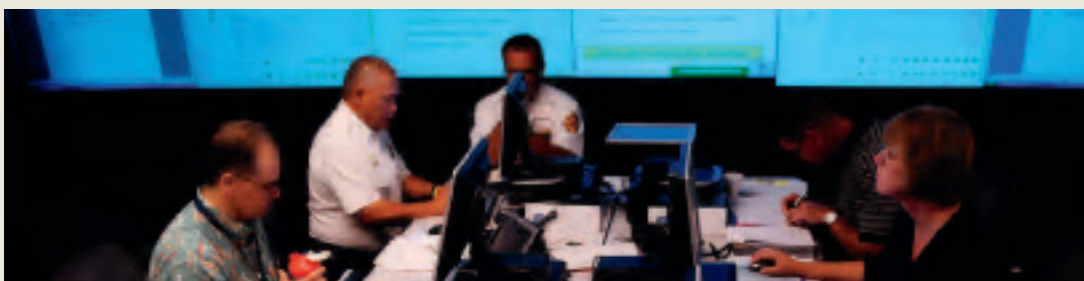
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HARVARD

SCHOOL OF PUBLIC HEALTH

Executive and Continuing Professional Education



Faculty

Radiological Emergency Planning is directed by **Edward F. Maher, ScD, CHP**. Dr. Maher is an instructor in the Department of Environmental Health at Harvard School of Public Health as well as an Associate and Senior Health Physicist at Dade Moeller and Associates, Inc.

Dr. Maher earned a doctor of science degree in radiological protection and health from the Harvard School of Public Health. Upon completion of his doctoral studies, Dr. Maher was assigned to the United States Air Force (USAF) Occupational and Environmental Health Laboratory and then to the Human Systems Center, Armstrong Laboratory, Brooks AFB, Texas. In this capacity, he was the overall director of comprehensive environmental and occupational health services support to worldwide USAF installations. The Division's specialty areas were air and water quality; medical, environmental, and occupational health physics; hazardous waste and material management; nuclear and radiological emergency response; and environmental noise research.

Dr. Maher is currently the Objective 3 (Dose Estimating and Reporting) Manager for the NIOSH Dose Reconstruction Project under the Energy Employees Occupational Illness Compensation Program Act (EEOICPA).

Dr. Maher is certified for comprehensive practice by the American Board of Health Physics (ABHP). He is a past Board Member of the American Board of Health Physics and the Board Chairperson in 2000. He served on the ABHP Panel of Examiners from 1989-1993, and was the Panel Chairperson in the 1992 exam year. He is a Fellow of the Health Physics Society (HPS), a Past-Secretary for the HPS, a Past-President of the American Academy of Health Physics, a Past-President of the New England Chapter of the Health Physics Society, and Past-President of the National Health Physics Society.

Dr. Maher will be joined by occupational health and health physics experts from Lawrence Livermore National Laboratory, Los Alamos National Laboratory, the United States Nuclear Regulatory Commission, the Nuclear Energy Institute, and other organizations in the public, private, and nonprofit sectors.

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Who Should Participate

This course is designed for anyone involved in emergency planning, response, or recovery in the public, private, or nonprofit sectors. Health physicists, public safety professionals, and first receivers and responders will also find this program beneficial. Foreign and domestic participants from organizations with the following functions are likely to attend:

- Nuclear or energy-industry regulatory bodies
- Homeland security and emergency management agencies
- Defense or military organizations
- Departments of health
- Power generation, especially nuclear power generation
- State and local emergency agencies
- State radiation control agencies

“This experience will greatly enhance my capabilities and enable me to provide more meaningful and effective planning information. The most valuable aspects were the takeaways that we can implement at our home agencies. The networking with fellow students and the faculty was invaluable.”

— James Ciulla
Emergency Manager
Putnam County, New York

“I will take the knowledge that I acquired at the course back to my organization to improve our procedures. This program is amongst the best continuing professional education programs that I have taken. I would definitely recommend this program to colleagues.”

— Roger Hugron, CD, MEng, CHP
Senior Nuclear Specialist
Canadian Department of National Defense



Curriculum

Radiological Emergency Planning: Terrorism, Security, and Communication provides an interactive environment in which participants can explore emergency planning and response considerations for radiological events. This program combines lectures and case studies taught by expert faculty in a unique learning experience.

The program starts with an optional, half-day refresher on radiological units, quantities, and fundamentals. This refresher covers atomic structure and radioactivity, measurements of radioactivity, natural sources of background radiation, and the biological effects and risks of radiation.

Public-sector faculty explore frameworks, guidelines, and lessons learned from federal agencies involved in radiological emergency planning. These guidelines are drawn from the federal framework for emergency planning, the US Environmental Protection Agency's protective action guides, and the US Nuclear Regulatory Commission's work at Fukushima Dai-ichi. The guidelines develop participants' ability to effectively plan for radiological incidents.

Intentional detonation of a nuclear device is a major consideration in radiological emergency planning. To address this issue, faculty will discuss key factors in planning for, responding to, and recovering from terror events involving radioactive material. Participants will also learn practical strategies currently being employed to address threats from terrorists or terrorist groups.

During a radiological event, communication with the public and the press is critical to ensuring the best possible outcome for everyone. Participants will discuss radiological crisis communication considerations and analyze media's response to such events. Critically, the program includes two in-class exercises designed to help participants respond to the needs of both the media and those actively involved in emergency response.

The program also addresses medical management during radiological incidents, mass fatality incident response, and decision making.

Learning Objectives

- Apply basic principles and fulfill requirements for a comprehensive radiation emergency plan
- Demonstrate compliance with roles and responsibilities that support Department of Homeland Security initiatives
- Deploy a decision-making matrix to assist in state and local reaction planning for radiological emergencies
- Integrate lessons learned about communications into specific emergency response plans
- Understand the need for, and application of, protective action guides in emergency planning
- Medically manage the casualties of radiological incidents without significantly increasing risks to first responders and first receivers

Sign Up to Receive More Information

Logistics

Program Check-in

Harvard School of Public Health
FXB Building
651 Huntington Avenue
Boston, MA 02115

Program Information

Please visit the course website for information regarding the program fee, accommodations for course participants, and Executive and Continuing Professional Education's substitution and cancellation policy.

For additional program details, please visit ecpe.sph.harvard.edu/REP14.

Continuing Education Credit

This program is accredited by the Harvard School of Public Health. Credit types and amounts will be determined once the agenda has been finalized and are subject to change.

About Harvard School of Public Health Executive and Continuing Professional Education

Harvard School of Public Health Executive and Continuing Professional Education prepares individuals and organizations to solve the most pressing global public health and health care challenges. Leaders in government, corporate, and nonprofit sectors around the world attend programs which provide strategies for addressing the critical issues facing their organizations with proven tactics that drive change.

To view a full list of courses, visit ecpe.sph.harvard.edu/Portfolio.

Contact Us

For more information, please contact **ECPE**.

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Web: ecpe.sph.harvard.edu

Recognized by the Harvard Education and Research Center

“Incorporating what I have learned into our training, procedures, and protocols will make us not only a better response organization but also a more proactive one. The faculty has done a great job at presenting the fears, barriers, and myths that come with the nuclear field and an even better job at presenting answers and counters to the effect.”

— Gerald Fisher
Nuclear Engineer
Newport News Shipbuilding

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Program Highlights

This program will help you and your organization prepare for radiological emergencies and to prioritize and communicate details about the crisis to the media, the public, and the teams responsible for public safety and health by working with people's perceptions and encouraging the proper responses to an incident.

Faculty and participants explore methods to respond to radiological emergencies, as well as the latest updates from federal and state agencies about:

- Emergency preparedness for terrorist activities
- Lessons learned about how best to communicate with the media and public
- Terrorist incidents involving radioactive materials
- The new US federal framework for Homeland Security
- Updates on emergency preparedness issues for nuclear utilities

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Reference Code: REP14-WB