



A Program in
**Occupational and
Environmental Health & Safety**



ANALYZING RISK:

Principles, Concepts, and Applications



March 6–9, 2017 | Boston, MA



**HARVARD
T.H. CHAN**

SCHOOL OF PUBLIC HEALTH

Executive and Continuing
Professional Education

As a participant in this course, you will gain the knowledge and skills to analyze the impact of environmental hazards on human health and learn to utilize this analysis to improve decision-making.

You will explore the principles of risk assessment, management, and communication and gain strategies for applying these concepts across industries and sectors. By attending this course, you will gain an understanding of key factors influencing the effectiveness of risk assessment and management, develop the ability to perform a quantitative risk assessment, and better determine the existence and extent of threats to public health.



Who Should Participate



Analyzing Risk will benefit anyone involved in conducting, reviewing, or overseeing risk analysis, risk management, or risk communication activities. Participants come from private corporations across industries, non-profit organizations, and local, state, and national governments. Ideal participants will have the following job functions and organizational backgrounds:

- Academia
- Consumer protection
- Economics
- Engineering
- Environmental science and policy
- Epidemiology
- Food safety
- Government and regulatory affairs
- Health and safety
- Law
- Public health policy and research
- Risk assessment and management
- Toxicology



Learning Objectives



- Develop and expand capacity with current and emerging methods for quantifying risks
- Evaluate exposure assessment protocols
- Differentiate between key assumptions and uncertainties in non-cancer and cancer dose-response models
- Implement probabilistic methods in uncertainty analysis and risk assessment
- Identify key factors that influence risk perception and communication
- Examine alternative approaches for valuation of environmental health risk outcomes
- Understand the role of risk information in benefit-cost analysis and risk management

“A very well-organized curriculum with take-aways that far exceed those that any other program can provide. An edge above, a must-attend course for professionals in risk assessment.”

— Anita Muller
National Safety Director
Compass Group at Exxon Mobil

“The quality of the faculty is excellent. They are not only knowledgeable and leaders in their fields of expertise, but display passion and energy, which made listening and learning a good experience.”

— Todd Joel Irick, BS, MSc
Senior Industrial Hygienist
WESA

Learn more:
hsph.me/risk-analysis

Faculty Program Director



James K. Hammitt, PhD is Director of the Harvard Center for Risk Analysis and a Professor of Economics and Decision Sciences in the Departments of Environmental Health and Health Policy and Management at Harvard T.H. Chan School of Public Health.

His research and teaching concern development and application of quantitative methods—including risk, decision, and benefit-cost analysis—to health and environmental policy in both industrialized and developing countries. He is particularly interested in comprehensive evaluation of risk-control

measures, including ancillary benefits and countervailing risks, and in methods for measuring the value of health risks, including monetary and health-adjusted-life-year metrics.

Dr. Hammitt holds degrees in Applied Mathematics and Public Policy from Harvard University and was previously Senior Mathematician at the RAND Corporation, a faculty member at the RAND Graduate School of Policy Studies, and held the Pierre-de-Fermat Chaire d'Écellence at the Toulouse School of Economics. He chaired the US Environmental Protection Agency's Advisory Council on Clean Air Compliance Analysis and has served on the EPA Science Advisory Board and several National Academy of Sciences committees.

Learn more:
hsph.me/risk-analysis

Program Highlights



The public is increasingly concerned about how their health is impacted by environmental hazards such as chemicals, pollution, and food-borne disease. This increased awareness has repercussions for governments, health organizations, and private companies, all of which have a stake in protecting public health. Risk analysis is a useful framework for managing potential threats to public health.

“The knowledge I have gained here will impact my organization, improving the quality of the risk assessments we conduct at our installations.”

— Hidemichi “Tom” Tomura, P.E., Jp
Engineer (Environmental)
U.S. Army Garrison Japan

“Excellent overview of the various aspects of risk analysis. The program met my high expectations.”

— Dirk Pallapies, MD, MSc
Epidemiologist
Institute for Prevention and Occupational Medicine of the
German Social Accident Insurance (IPA)



Learn more: **hsph.me/risk-analysis**

Program Check-in

Harvard T.H. Chan
School of Public Health
651 Huntington Avenue
Boston, MA 02115

Program Information

Please visit the course website for information regarding the program fee, accommodations, faculty, agenda, and our substitution and cancellation policy.

Continuing Education Credit

This program is accredited by Harvard T.H. Chan School of Public Health. Credit types and amounts will be determined once the agenda has been finalized and are subject to change. Please visit the course website periodically for the latest information.

Program Portfolio

For a full list of Executive and Continuing Professional Education courses, visit **hsph.me/portfolio**

Contact Us

For more information, please contact us by phone at **(617) 432-2100** or by e-mail at **contedu@hsph.harvard.edu**

About Harvard T.H. Chan School of Public Health Executive and Continuing Professional Education

We prepare 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.



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Risk analysis is used to protect the environment and public health by organizing and communicating knowledge about health risks within a framework useful for decision-making. This course explores the key elements of risk analysis (risk assessment, risk management, and risk

communication) to help you identify health hazards, communicate effectively, and protect public health.

You will leave Harvard having developed a global network of public health professionals to rely on for guidance as you implement what you learned.