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.

Learn more:
ecpe.sph.harvard.edu/RISK16
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
• Evaluate alternative approaches for valuation of environmental health risk outcomes
• Understand the role of risk information in benefit-cost analysis and risk management

“The knowledge I have gained here will impact my organization, improving the quality of the risk assessments we conduct at our installations. In this regard, I anticipate a 20% increase in project implementation.”
— Hidemichi Tomura
Environmental Engineer
US Army Garrison, Japan

“An edge above, a must-attend for professionals in risk assessment.”
— Anita Muller
National Safety Director
Compass Group at Exxon Mobil

Learn more: ecpe.sph.harvard.edu/RISK16
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:

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

“Harvard T.H. Chan School of Public Health provided an exceptional opportunity for me to learn not only from experts in the field of risk assessment but also from colleagues from around the world.”

— Gary O’Toole
Director of Environmental Health
Nova Scotia Department of Health and Wellness

Learn more:
ecpe.sph.harvard.edu/RISK16
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.

Professor 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’Éxcellence 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.
Program Check-in
Harvard T.H. Chan
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Please visit the course
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types and amounts will
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Harvard T.H. Chan School of Public Health
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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.

Learn more:
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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 about those risks, 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.