

Course Name: Environmental Risk Assessment

Course Description: The objective of this course is to provide participants with knowledge and training in the areas of human and ecological risk assessment and risk management. The course presents the quantitative methods used to assess the human and ecological health risks associated with exposure to toxicants, focusing on the four major components of risk assessment - hazard identification, dose-response assessment, exposure assessment, and risk characterization. Risk management, risk communication and public consultation will also be addressed.

The course objectives are accomplished by lectures, interesting and relevant case studies, and hands-on exercises. We have designed the program to flow easily and to serve as a good reference for future use. While some of the material will be delivered classroom-style, we believe an informal and interactive approach will be most effective.

We feel that it is important to customize the course material to suit your needs, and to make it as relevant as possible to your specific issues. We anticipate that you may have some additional suggestions on what the course should cover and we can modify the approach where necessary.

Target Audience: This course is designed for:

- Environmental managers interested in better understanding environmental risk and potential liability associated with their operations;
- Environmental staff responsible for day to day risk mitigation measures;
- Executives that wish to gain a better understanding of the potential impacts their operations have on the environment and health.

Course Outline: The Environmental Risk Assessment Executive Course consists of the following modules:

- Module 1 – Training Program Introduction
- Module 2 – Global Environmental Issues and Aspects
- Module 3 – Overview of Environmental Risk Assessment
- Module 4 – Problem Formulation and Environmental Sampling
- Module 5 – Receptor Identification and Hazard Assessment
- Module 6 – Exposure Assessment & Chemical Fate and Transport
- Module 7 – Risk Characterization
- Module 8 – Risk Management & Risk Control Measures
- Module 9 – Risk Communication & Public Consultation

Length of the Course: The course can be tailored to meet your needs and varies between 1 and 3 days to complete successfully.

Course Location: A Jacques Whitford office or client site.

Jacques Whitford Training Institute



Course Evaluation and Certification: All participants who successfully complete the final test will be able to print a JWTI certificate upon completion.

Course Pre-requisites: None required.

Materials: This course is supported by an in-house developed guidance document and support material that will be provided to students. The course is supported by a resource Web site containing links to additional information. Upon successful completion of the course you will be provided access to our on-line “e-learning” continuing educational modules at no additional cost.

Supplementary Reading(s): There is no requirement to read supplementary material, if such material is desired a suggested reading list can be provided prior to the start of the course

Instructor Information:

Senior Instructor – Dr. Christopher Ollson, Corporate Director Environmental Risk Assessment. Dr. Ollson specializes in human and ecological toxicology and risk assessment. He teaches courses both at Canadian Universities and to a variety of public and private sector clients.

Senior Human Health Instructor – Dr. David Rae, Senior Human Health Risk Assessor. Dr. Rae specializes in human health risk assessment and policy development. He has taught numerous health risk and management courses for government and private sector clients.

Senior Ecological Instructor – Dr. Malcolm Stephenson, Senior Ecotoxicologist. Dr. Stephenson is an expert in ecotoxicity and risk assessment, both in aquatic and terrestrial environments. He teaches eco-risk courses to university students, government and private sector clients.

Course Cost: n/a

Other Important Information: n/a

Available Support Services: If you have any questions, please contact course_admin@jacqueswhitford.com or call Course Admin at JWTI (613) 738-0708 ext. 3204.