

USEPA Risk Assessment for Air Toxics Course

This three-day course is challenging and active. The focus is on the way in which risk assessments are carried out when there is a particular concern for exposure to toxic air pollutants. This course is designed to fit the needs of a wide range of specialists – from engineers to modelers to toxicologists to managers. In fact, students learn better when there is a mix of experience in the class.

Two case studies are used to perform a facility risk assessment and a community assessment. At the end of the course students should be able to describe and understand the role of Risk Assessment within the Clean Air Act and also begin to understand how it is used in their own program. Students will also know the terms and concepts used in risk assessment and be able to identify the basic steps and tools in evaluating risk. They will learn to generate simple risk assessments and begin to recognize and access resources to aid in conducting/evaluating risk assessments. They will also learn to communicate effectively with others about risk assessment.

SAMPLE AGENDA

<i><u>Day 1</u></i>	<i><u>Day 2</u></i>	<i><u>Day 3</u></i>
Welcome, Intros, Objectives	Overview of Exposure Assessment	Toxicity Assessment: Hazard Characterization And Dose-Response
The World of Risk: A background for the evaluation and assessment of risk.	Exposure Assessment: Source Identification	Toxicity Assessment: Continue Case Study
LUNCH	Exposure Assessment: Source Characterization	LUNCH
History of Risk Assessment: Legislation and Methods.	LUNCH	Risk Characterization: Complete the Case Studies and Review Uncertainties
The Air Toxics Risk Assessment Process.	Exposure Assessment: Fate and Transport	Talking and Writing About Risk
Planning and Scoping an Assessment: Begin the Case Studies	Review of Key Terms	Wrap Up
	What Are Your Burning Questions?	