

Environmental Management Systems: Monitoring and Modelling

Health & Safety
Toronto (Canada)
21 - 25 Jul 2025

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Environmental Management Systems: Monitoring and Modelling

Ref: 321557_140992 **Date:** 21 - 25 Jul 2025 **Location:** Toronto (Canada) **Fees:** 4700 **Euro**

Course Description

This intensive 5-day course provides a comprehensive overview of Environmental Management Systems EMS with a focus on monitoring and modelling techniques. Participants will learn to implement effective EMS strategies, analyze environmental data, and develop predictive models for sustainable business practices. The course combines theoretical knowledge with practical applications to enhance environmental performance in various organizational settings.

Learning Objectives

- Understand the principles and components of Environmental Management Systems
- Develop skills in environmental monitoring and data analysis
- Learn to create and interpret environmental models for decision-making
- Implement EMS strategies to improve organizational sustainability
- Evaluate and enhance environmental performance using key indicators

Course Modules

Day 1: Introduction to Environmental Management Systems

- EMS principles and frameworks
- ISO 14001 standards and requirements
- Environmental policy development
- Identifying environmental aspects and impacts

Day 2: Environmental Monitoring Techniques

- Air quality monitoring methods
- Water quality assessment tools
- Soil contamination analysis
- Noise and vibration monitoring

Day 3: Data Analysis and Interpretation

- Statistical analysis of environmental data
- Trend analysis and forecasting
- Geographic Information Systems GIS for environmental mapping
- Data visualization techniques

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver. The text 'UK Training PARTNER' is overlaid on the board.

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Day 4: Environmental Modelling

- Introduction to environmental modelling concepts
- Air dispersion modelling
- Water quality modelling
- Life cycle assessment modelling

Day 5: Implementing EMS and Continuous Improvement

- Developing environmental management programs
- Setting objectives and targets
- Environmental performance indicators
- Auditing and management review processes

Practical Wins for Participants

- Ability to design and implement an effective EMS in their organization
- Skills to conduct environmental monitoring and analyze complex data sets
- Competence in creating environmental models for informed decision-making
- Strategies to enhance organizational sustainability and reduce environmental impacts

A graphic of a chessboard with several chess pieces. A large gold king piece is prominent in the foreground, with a silver pawn and a gold pawn nearby. In the background, there are concentric circles emanating from a point on the board.

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