€TRAINING

Environmental Management Systems

14 - 18 October 2024
Kuala Lumpur (Malaysia)

Environmental Management Systems

Introduction:

This training program provides comprehensive instruction on the principles and applications of environmental monitoring, modeling, and management systems. It equips individuals with the skills needed to address environmental challenges, manage impacts, and ensure regulatory compliance in various industries.

Program Objectives:

At the end of this program, participants will be able to:

- Understand the principles and practices of environmental monitoring and modeling.

- Learn to collect, analyze, and interpret environmental data effectively.

- Grasp the components and requirements of an EMS and its implementation process.

- Acquire skills to utilize an EMS for identifying and managing environmental impacts.

- Understand how to measure and report the performance of an EMS accurately.

Targeted Audience:

- Environmental scientists and engineers.

- Environmental consultants and analysts.

- Environmental health and safety professionals.

- Regulatory compliance officers.

- Individuals involved in environmental management and sustainability initiatives within organizations.

Program Outlines:

Unit 1:

Introduction to Environmental Monitoring:

- Overview of environmental monitoring.

- Types of environmental monitoring.

- Importance of environmental monitoring.

- Environmental monitoring equipment.

- Environmental data collection, analysis, and interpretation.

Unit 2:

Environmental Modelling Techniques and Applications:

- Overview of different types of environmental models, such as mathematical, conceptual and statistical models.

- Understanding the physics and chemistry behind different environmental processes and how they are modeled.

- Hands-on experience in using popular environmental modeling software e.g. GIS, R, MATLAB.

- Case studies of environmental modeling applications in water resources, air quality, climate change, and waste management.

- Best practices in model selection, calibration and validation, and uncertainty analysis in environmental modeling.

Unit 3:

Introduction to Environmental Management Systems:

- Overview of environmental management systems EMS.

- International standards for environmental management systems ISO 14001.

- Components of an EMS.

- Implementing and maintaining an EMS.

- Best practices in environmental management.

Unit 4:

Environmental Impact Assessment and Auditing:

- Environmental Impact Assessment EIA.

- Environmental auditing.

- Auditing process and standards.

- Environmental performance indicators.

- Environmental reporting and communication.

Unit 5:

Environmental Policy and Governance:

- Understanding environmental policy frameworks and regulations.

- Roles and responsibilities of government agencies and regulatory bodies in environmental governance.

- Analysis of international agreements and treaties related to environmental protection.

- Public participation and stakeholder engagement in environmental decision-making processes.

- Evaluating the effectiveness of environmental policies and governance mechanisms in achieving sustainability goals.