



Environmental Management Systems: Monitoring and Modelling Course

21 – 25 December 2026
Rome (Italy)



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Introduction

As concern grows for continually improving the quality of the environment, organizations of all types and sizes are increasingly focusing on the environmental impacts of their activities, products, and services. An organization's environmental performance is important to internal and external interested parties. Achieving sound environmental performance requires an organizational commitment to a systematic approach and continual improvement of their environmental performance.

This Environmental Management System EMS training course aims to allow delegates to gain the skills and knowledge to develop, implement, and improve an Environmental Management System, aligning with the various environmental management system requirements and aiming for environmental management system certification.

Developing an Environmental Management System: A New Model

In this segment of the environmental management system training course, we delve deeper into the methodologies for developing an environmental management system model tailored to the organization's needs.

In the environmental management system training course, participants will learn about designing environmental management systems based on operational effectiveness and efficiency, integrating environmental monitoring data management systems, and aiming toward robust sustainability and resilience in their organization's environmental initiatives.

Targeted Groups

- Production and Process Engineers.
- Maintenance Engineers.
- Individuals who manage and purchase hazardous substances.
- Managers, Supervisors, and Consultants who will be part of an Environmental Management Systems Implementation Team.
- Anyone involved in implementing, maintaining, or supervising an ISO 14001 EMS.

Course Objectives

By the end of this environmental management system training, participants will be able to:

- Understand the different types of environmental aspects and their environmental impacts.
- Understand the requirements of the environmental management standard ISO 14001:2004.
- Develop and implement an Environmental Management System EMS.
- Prepare a plan for obtaining EMS ISO 14001:2004 certification from a certifying authority.
- Identify waste streams and opportunities for recycling and managing wastewater in environmental management systems.

Targeted Competencies

At the end of this environmental management system training course, the target competencies will be able to:

- Understanding the different types of environmental aspects and their environmental impacts.
- Knowledge of the definition of the environmental management system and its requirements according to ISO 14001:2018.
- Developing and implementing an Environmental Management System EMS.
- Preparing operational plans for obtaining compliance with ISO 14001:2018.
- Identifying all waste stream types, waste recycling opportunities, and land rehabilitation.

Course Content

Unit 1: Introduction to Environmental Management

- Exploring the meaning of environment and the purpose of the environmental management system.
- Benefits of good environmental management.
- Key Environmental Management System EMS elements.
- Document framework for an EMS.
- Introduction to ISO 14001:2004.

Unit 2: Environmental Management Systems

- Drafting an environmental policy.
- Concepts of the environmental standard ISO 14001:2004.
- Conducting an Initial Environmental Review IER.
- Examining environmental aspects and impacts.
- Understanding environmental disasters.
- Producing an EMS document framework.

Unit 3: Environmental Aspects and Impacts

- Understanding environmental impacts.
- Comprehending global, regional, and local environmental issues.
- Determining significant environmental aspects.
- Identifying applicable regulatory and standards requirements.
- Preparing an environmental impact assessment checklist.

Unit 4: Environmental Impact Assessment EIA

- Elements of the EIA process.
- Executing an EIA.
- Analyzing impacts.
- Delving into the concept of environmental disaster.
- Outlining the steps of an EIA process.

Unit 5: Internal Environmental Auditing

- Conducting an environmental audit.
- Management review process.
- Checking and evaluation of compliance obligations.
- EMS performance monitoring, measurement, analysis, and evaluation.