

ENVIRONMENTAL MONITORING AND MODELLING



HSE208

COURSE TITLE**Environmental Monitoring and Modelling****COURSE DATE/ VENUE****13th - 17th October 2025****Madrid, Spain****COURSE REFERENCE****HSE208****COURSE DURATION****05 Days****DISCIPLINE****Health, Safety****COURSE INTRODUCTION**

This Trainit Academy Environmental Monitoring and Modelling training course is designed to allow participants with the applicable skills and knowledge to evaluate and report on the conformance of an environmental management system and effectively implement an environmental management system. It provides the knowledge to develop, manage, and monitor Environmental Management Systems (EMS) suitable to the needs of their organisation focusing on environmental risks, activities, characteristics, and impacts.

This training course aims to present to the participants the idea, methodology, and essential tools of environmental modeling. Nowadays, Models are imperative tools in environmental studies and management. To better understand environmental systems, to forecast their behaviour and to develop effective management strategies, it is essential to bring together ecological, socio-economic, and technological aspects of environmental problems.

As concern grows for constantly improving the quality of the environment, organizations of all types and sizes are progressively turning their attention to the environmental effects of their activities, products, and services. The environmental act of an organization is of importance to internal and external concerned parties. Achieving thorough environmental performance requires organisational commitment to a systematic approach and continual improvement of their environmental performance.

COURSE OBJECTIVE

By the end of this Trainit Academy training course, attendees will gain the ability to:

- Understand types of environmental aspects and their environmental impacts
- Understand the requirements of newly revised ISO 14001:2015 standard
- Identify all waste stream types and opportunities for reducing costs of waste
- Understand environmental-management system definitions, ideas, and guidelines
- Understand the Environmental Management System (EMS) implementation phases, learn best-practice techniques, examine useful tools, and understand the incorporation of the Environmental Management System (EMS) with other environmental programs
- Apply environmental-management principles to achieve continual Environmental Management System (EMS) improvement

COURSE AUDIENCE

This Trainit Academy Environmental Monitoring and Modelling course will be especially useful for all individuals who wish to improve their skills and develop their knowledge of Environmental Management Systems (EMS).

This Trainit Academy training course is a suitably wide range of professionals but will be especially useful for:

- Production and Process Engineers
- Maintenance Engineers
- People who are involved in the managing and purchasing of hazardous substances
- Managers, Supervisors, and Consultants who will be part of an Environmental Management Systems Implementation Team
- Anyone involved in the implementation, maintenance or supervising of an ISO 14001

COURSE CONTENT

Day 1: Introduction to Environmental Management

- Benefits of Good Environmental Management
- Key Environmental Management System (EMS) Elements
- Document Framework for an EMS
- EMS as a Process (Plan / Do / Check / Act)
- ISO 14001:2015 EMS Benefits & Requirements
- Understanding Organisation's Activities and Interested Parties

Day 2: EMS / Leadership and Planning

- Initial Environmental Review (IER)

- Developing and Communicating an Environmental Policy
- Assigning Organisational Roles, Responsibilities, and Authorities
- Determining Organisation's Compliance Obligations
- Selecting Risk Control Measures
- Setting Environmental Objectives

Day 3: Environmental Aspects & Impacts

- Identifying and Analysing Environmental Aspects and Impact Risks
- Understanding Global, Regional and Local Environmental Issues
- Carrying out an EIA
- Identifying Applicable Regulatory and Standards' Requirements

Day 4: Support and Operations

- Awareness, Communication, Documented Information
- Operational Control
- Contractor & Supplier Controls
- Emergency Preparedness and Response

Day 5: Performance Evaluation and Internal Auditing

- Carrying Out an Environmental Audit
- EMS Performance Monitoring, Measurement, Analysis and Evaluation
- Checking and Evaluation of Compliance Obligations
- Management Review Process



COURSE CERTIFICATE

TRAINIT ACADEMY will award an internationally recognized certificate(s) for each delegate on completion of training.

COURSE FEES

£5,500 per Delegate. This rate includes participant's manual, Hand-Outs, lunch, coffee/tea on arrival, morning & afternoon of each day.

COURSE METHODOLOGY

The training course will be highly participatory and the course leader will present, guide and facilitate learning, using a range of methods including formal presentation, discussions, sector-specific case studies and exercises. Above all, the course leader will make extensive use of real-life case examples in which he has been personally involved. You will also be encouraged to raise your own questions and to share in the development of the right answers using your own analysis and experiences. Tests of multiple-choice type will be made available on daily basis to examine the effectiveness of delivering the course.

- 30% Lectures
- 30% Workshops and work presentation
- 20% Case studies & Practical Exercises
- 10% Role Play
- 10% Videos, Software or Simulators (as applicable) & General Discussions

