Environmental Management Systems: Monitoring and Modelling

21 – 25 December 2026
London (UK)

UK Traininig
PARTNER



Environmental Management Systems: Monitoring and Modelling

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Why This Course

Organizations across all sectors are under increasing pressure to improve environmental performance, meet regulatory requirements, and demonstrate measurable sustainability outcomes. A well-designed Environmental Management System EMS, supported by robust monitoring and modelling techniques, enables organizations to move beyond compliance toward proactive environmental stewardship.

This intensive 1-week program equips environmental professionals, engineers, sustainability managers, and compliance officers with the knowledge and practical tools required to design, implement, and enhance EMS frameworks. Through applied exercises and case-based learning, participants will gain the confidence to analyze environmental data, build predictive models, and drive continuous improvement initiatives.

What You'll Learn and Practice

By attending this course, you will:

- Understand the structure and core components of Environmental Management Systems.
- Apply environmental monitoring techniques to collect reliable data.
- Analyze and interpret environmental data for informed decision-making.
- Develop and utilize environmental models to predict impacts and assess risks.
- Implement EMS strategies that enhance sustainability and performance.
- Measure and improve environmental outcomes using performance indicators.

The Program Flow

Day 1: Introduction to Environmental Management Systems

- EMS principles, structure, and frameworks
- ISO 14001 standards and key requirements
- Developing environmental policies
- Identifying environmental aspects, impacts, and risk priorities

Day 2: Environmental Monitoring Techniques

- Air quality monitoring methods and instrumentation
- Water quality assessment tools and sampling techniques
- Soil contamination testing and analysis
- Noise and vibration monitoring approaches



Day 3: Data Analysis and Interpretation

- Statistical analysis of environmental data
- Trend evaluation and forecasting methods
- Using GIS for environmental mapping and spatial analysis
- Data visualization and reporting techniques

Day 4: Environmental Modelling

- Fundamentals of environmental modelling
- Air dispersion modelling concepts and applications
- Water quality modelling techniques
- Life cycle assessment LCA modelling for sustainability evaluation

Day 5: Implementing EMS and Continuous Improvement

- Designing environmental management programs
- Setting measurable objectives and targets
- Establishing environmental performance indicators KPIs
- Conducting audits and management reviews for continual improvement

Individual Impact

- Stronger capability to design and manage effective EMS frameworks.
- Enhanced technical skills in monitoring, data analysis, and modelling.
- Improved confidence in interpreting environmental performance results.
- Practical tools to support sustainability and regulatory compliance efforts.

Organizational Impact

- Improved environmental compliance and risk management.
- Data-driven decision-making for sustainability initiatives.
- Reduced environmental impacts and enhanced corporate reputation.
- Structured continuous improvement aligned with international standards.

Training Methodology

- Interactive workshops and real-world case studies.
- Practical exercises in monitoring data analysis and modelling concepts.
- Group discussions on regulatory and sustainability challenges.
- Action planning sessions for EMS implementation and improvement.



Beyond the Course

Participants will leave ready to:

- Implement and strengthen Environmental Management Systems within their organizations.
- Analyze environmental performance using reliable data and modelling tools.
- Develop predictive insights to reduce environmental risks.
- Drive continuous improvement toward long-term sustainability goals.

