
Environmental Management & ISO 14001 Training

9 – 13 August 2027
Cape town





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Ref: 1908_6865 **Date:** 9 – 13 August 2027 **Location:** Cape town **Fees:** 4800 GBP

Programme Summary

Environmental Management & ISO 14001 Training provides structured instruction on building, operating, and verifying an environmental management system aligned with modern governance expectations. Delegates examine core ecological obligations, establish methods for evaluating environmental aspects and impacts, and apply rigorous controls across effluent discharges, atmospheric emissions, and solid residues. The syllabus addresses resource efficiency, operational conformity registers, pollution prevention, and systematic environmental reviews. This structured professional programme is delivered by Mars Training Centre UK.

The Business Case

Enterprises operating without rigorous environmental oversight face regulatory penalties, supply chain disqualification, and reputational vulnerability. Embedding systematic practices for environmental evaluation safeguards operational continuity and demonstrates sound corporate stewardship.

- **Pollution Prevention:** Eliminates uncontrolled effluent discharges and atmospheric emissions through verified operational checkpoints.
- **Waste Compliance:** Establishes auditable tracking for hazardous and non-hazardous residues in accordance with statutory conditions.
- **Resource Efficiency:** Decreases raw utility consumption and lifecycle material loss across core operating units.
- **Stakeholder Transparency:** Delivers defensible operational records to support customer tenders, financing agreements, and sustainability disclosures.

Principles and Frameworks

- **ISO 14001:** Provides the foundational plan-do-check-act model for structuring environmental objectives, operational controls, and corrective cycles.
- **ISO 14004:** Offers extended guidance on establishing, applying, maintaining, and enhancing environmental management frameworks.
- **ISO 19011:** Outlines the criteria and protocols for planning, conducting, and documenting environmental verification reviews.



Intended Participants

- Environmental coordinators, specialists, and advisors overseeing site-level ecological performance.
- Operations supervisors and facility superintendents responsible for effluent, emissions, and waste handling protocols.
- Compliance officers and governance specialists establishing registers of ecological obligations.
- Assessment team members tasked with executing operational conformity reviews and surveillance checks.

The curriculum supports personnel across manufacturing, extractive industries, logistics, utilities, and infrastructure services.

Learning Outcomes

1. Interpret the architecture and operational intent of the ISO 14001 framework.
2. Execute systematic methodologies for evaluating environmental aspects and impacts across varied operations.
3. Compile and maintain comprehensive registers of statutory ecological duties and consent conditions.
4. Design operational procedures governing emissions monitoring, effluent control, and chemical handling.
5. Establish measurable environmental performance indicators aligned with corporate sustainability priorities.
6. Plan and conduct evidence-based environmental verification reviews following structured assessment protocols.

Programme Structure

Day 1: Environmental Framework Architecture and Organisational Context

How do organisations translate operational contexts into structured ecological programmes?

- Plan-Do-Check-Act Architecture in Modern Environmental Stewardship
- Scoping Organisational Context, Stakeholder Expectations, and Value Chains
- Leadership Accountability, Resource Allocation, and Ecological Commitments
- Baseline Reviews and Gap Diagnostics for Existing Site Controls
- Structuring Documented Information and Operational Records

Day 2: Evaluating Environmental Aspects and Regulatory Duties

How are operational activities systematically assessed for environmental consequence and compliance?

- Techniques for Evaluating Environmental Aspects and Impacts in Direct and Indirect Operations
- Significance Scoring Models and Normal, Abnormal, and Emergency Operating Scenarios
- Lifecycle Perspectives in Material Sourcing, Use, and End-of-Life Treatment
- Building and Updating Registers of Environmental Obligations and Consents
- Establishing Measurable Environmental Targets and Action Programmes



Day 3: Operational Stewardship, Emissions, and Residue Controls

How are day-to-day facilities governed to prevent pollution and control releases?

- Operational Run Controls for Atmospheric Releases and Point-Source Discharges
- Techniques for Water Conservation, Effluent Monitoring, and Secondary Containment
- Hazardous and Non-Hazardous Waste Compliance, Segregation, and Consignment Tracking
- Chemical Storage, Spillage Mitigation, and Environmental Emergency Protocols
- Contractor and Supplier Environmental Assurance Protocols

Day 4: Environmental Performance Evaluation and Review Protocols

How do operational teams verify conformity and measure ecological outcomes?

- Designing Quantitative Environmental Performance Indicators and Operational Dashboards
- Air, Water, and Waste Monitoring Regimes and Calibration Requirements
- Evaluating Compliance Against Authorisations, Permits, and Binding Commitments
- Principles and Methodologies of Environmental Verification Reviews
- Gathering Objective Evidence, Interviewing, and Documenting Non-Conformities

Day 5: Corrective Actions, Continuous Enhancement, and Governance

How are review findings converted into sustained operational improvements?

- Root Cause Determination and Corrective Action Verification Routines
- Conducting Executive Environmental Reviews and Resource Reallocations
- Integrating Environmental Frameworks with Quality and Occupational Programmes
- External Verification Preparation and Surveillance Protocol Management
- Action Planning for Workplace Environmental Programme Upgrades

Methodology

Instruction employs practical case studies, real-world register development, and applied site-scenario exercises. Delegates collaborate on aspect significance matrices, evaluate simulated emissions monitoring logs, and prepare formal conformity reviews.

- Suggested activity: Drafting a quantitative aspect significance matrix for a multi-process operational plant.
- Suggested activity: Formulating a chemical spill response protocol and evaluating containment safeguards.
- Suggested activity: Conducting an evidence-gathering review simulation based on an industrial effluent monitoring log.



Capstone Output

Each delegate creates a practical site environmental portfolio, featuring an evaluated aspects and impacts register, an operational emissions monitoring protocol, and an environmental review checklist ready for workplace deployment.

Frequently Asked Questions

What operational tools are developed during the week?

Delegates produce operational aspect matrices, compliance obligation matrices, monitoring plans, and review checklists suited to direct workplace application.

Is prior experience in environmental assessment required?

No prior assessment background is required. The curriculum builds progressively from foundational framework concepts to advanced operational control protocols.

How does this syllabus address industrial emissions and effluent?

Dedicated sessions examine operational controls, containment design, abatement methods, and monitoring procedures for releases to air, land, and water.

Are the course materials applicable to integrated management systems?

Yes. The modular structure aligns with common high-level structures, supporting straightforward integration with parallel operational programmes.