JUPITER PRIME
Consulting • Training • Advisory
جوبيتر برايم للاستشارات والتدريب

COURSE BROCHURE

# Environmental Management and Resource Efficiency Training Course

17 – 28 October 2027
Muscat

# Environmental Management and Resource Efficiency Training Course

**Ref:** 272_8854 **Date:** 17 – 28 October 2027 **Location:** Muscat **Fees:** 9900 GBP

Environmental Management and Resource Efficiency is a 2-week training course for HSE managers, environmental officers and operations managers who prepare a Site Environmental Improvement Plan for a plant, facility or campus. Tighter permit conditions, rising utility costs and customer scrutiny mean that emissions, effluents, waste and water use now affect both licence to operate and margins. Jupiter Prime Training offers this course to professionals who run environmental performance day to day.

## Why Environmental Management and Resource Efficiency Matter Now

Three pressures shape environmental work on site today. Regulators and permit authorities expect continuous monitoring, prompt reporting and evidence of corrective action. Customers and investors ask suppliers for environmental certificates, water data and waste diversion figures. Energy, water and disposal costs keep rising, so inefficiency shows up directly in operating budgets. Sites that manage well avoid penalties, cut costs and win contracts; those that do not face enforcement notices, community complaints and lost business. The course rests on ISO 14001 for environmental management systems and the Greenhouse Gas GHG Protocol for site emissions accounting.

## Who Gains Most from Environmental Management and Resource Efficiency

- HSE leads who maintain environmental management systems and permits
- Environmental officers who monitor emissions, discharges and waste streams
- Operations managers who control energy, water and raw material use
- Maintenance planners who keep pollution control equipment working reliably
- Site auditors who check legal requirements and corrective actions

A site leadership group gains most when its HSE, operations and maintenance members attend together and agree one set of environmental targets.

## Environmental Management and Resource Efficiency Capabilities

Participants turn environmental obligations into controlled processes, measured savings and fewer incidents.

- Assess significant environmental aspects and impacts across site activities — management system owners
- Design operational controls for air, water, soil and noise — production supervisors
- Calculate resource efficiency gains from energy, water and material projects — finance approvers
- Build a waste hierarchy plan that cuts landfill and disposal costs — site leadership
- Specify environmental performance indicators and monitoring routines — permit holders
-

Communicate environmental results and incidents to authorities and neighbours — external stakeholders

## Key Environmental Management and Resource Efficiency Terms

- Environmental aspect — an element of an organisation's activities, products or services that interacts with the environment.
- Significant aspect — an environmental aspect with an actual or potential impact judged important enough to control and monitor.
- Pollution prevention — using processes, materials or practices that avoid or reduce pollutants at source rather than treating them later.
- Resource efficiency — producing the same or more output with less energy, water and raw material.
- Environmental performance indicator — a measurable value that shows how well a site manages a specific environmental aspect.
- Legal register — a maintained list of the environmental laws, permits and conditions that apply to a site.

## Environmental Management and Resource Efficiency Day by Day

### Day 1: Environmental Pressures on Operations

- Environmental Risk Landscape — Air, Water, Soil, Waste and Noise
- Stakeholder Expectations Review — Regulators, Customers and Neighbours
- Cost of Environmental Failure — Fines, Shutdowns and Clean-Up
- Site Environmental Baseline — Current Emissions and Resource Use
- Sector Contrasts — Manufacturing Plants and Commercial Facilities

### Day 2: Environmental Management Systems

- ISO 14001 Structure — Context, Leadership, Planning and Operation
- Environmental Policy Design — Commitments and Objectives
- Roles and Competence — Assigning Environmental Responsibilities
- Documented Information Control — Procedures, Records and Evidence
- Integration With Quality and Safety Systems — Shared Processes

### Day 3: Aspects and Impacts Assessment

- Activity Mapping — Inputs, Outputs and Life Cycle Stages
- Aspect Identification Methods — Normal, Abnormal and Emergency Conditions
- Significance Criteria — Severity, Frequency and Legal Concern
- Aspects Register — Ranking Control Priorities
- Objectives and Targets Setting — Measurable Environmental Goals

## Day 4: Legal Requirements and Permits

- Legal Register Development — Identifying Applicable Requirements
- Permit Condition Tracking — Limits, Reports and Deadlines
- Compliance Evaluation — Periodic Checks and Evidence
- Regulator Inspections — Preparation and Response
- Nonconformity and Corrective Action — Closing Gaps Permanently

## Day 5: Pollution Prevention and Control

- Air Emission Controls — Dust, Fumes and Combustion Gases
- Wastewater Treatment Options — Primary, Secondary and Tertiary Stages
- Spill Prevention and Bunding — Protecting Soil and Groundwater
- Noise and Odour Management — Reducing Community Complaints
- Chemical Storage and Handling — Substitution and Containment

## Day 6: Energy and Water Efficiency

- Energy Audit Methods — Metering, Profiling and Hotspots
- Compressed Air, Motors and Lighting — Quick Efficiency Wins
- Water Balance Mapping — Sources, Uses and Losses
- Water Reuse and Recycling — Cooling, Washing and Irrigation
- GHG Protocol Site Inventory — Scope 1 and Scope 2 Emissions

## Day 7: Waste and Materials Management

- Waste Hierarchy Application — Avoid, Reduce, Reuse, Recycle, Recover
- Waste Stream Characterisation — Hazardous and Non-Hazardous Categories
- Segregation and Storage Practices — Preventing Contamination
- Contractor Selection for Disposal — Duty of Care Checks
- Material Efficiency Projects — Yield Improvement and Scrap Reduction

## Day 8: Monitoring, Measurement and Indicators

- Environmental Monitoring Plans — Parameters, Frequency and Methods
- Sampling and Laboratory Quality — Reliable Results
- Environmental Performance Indicators — Intensity and Absolute Measures
- Dashboards for Site Leadership — Monthly Environmental Results
- Incident Investigation — Root Cause and Lessons Learned

## Day 9: Internal Audit and Management Review

- Environmental Internal Audit Schedule Planning — Scope and Frequency
- Audit Techniques — Interviews, Observation and Records
- Management Review Inputs — Performance, Risks and Resources
- Continual Improvement Cycle — Plan, Do, Check, Act
- Environmental Communication — Reports to Authorities and Neighbours

## Day 10: Practising the Site Environmental Improvement Plan

- Applying the Aspects Register — Selecting Priority Controls
- Applying Energy and Water Audits — Choosing Efficiency Projects
- Applying Waste Hierarchy Analysis — Diversion Targets
- Peer Site Review — Testing Targets and Monitoring Plans
- Site Environmental Improvement Plan — Final Version for Management Approval

## Applying Environmental Management and Resource Efficiency After the Course

- Refresh the aspects register for one production area and confirm the three significant aspects that need new operational controls.
- Run a water balance exercise for the site and present two reuse options with estimated savings to operations leadership.

## Environmental Management and Resource Efficiency Questions FAQ

### What are environmental management and resource efficiency, and why do they matter now?

Environmental management and resource efficiency are the systems and practices that control a site's environmental impacts and reduce its use of energy, water and materials. They matter now because permits, customers and costs all demand better measured performance.

### Which roles gain most from environmental management and resource efficiency training?

HSE managers, environmental officers, operations managers, maintenance planners and site auditors gain most. You benefit if you hold permits, run monitoring, control utilities or lead corrective actions after environmental incidents.

### How do environmental management and resource efficiency differ from an ESG reporting course?

Environmental management and resource efficiency work at site level on controls, monitoring, waste, water and energy. An ESG reporting course concentrates on corporate disclosure to investors rather than the operational controls that produce the underlying environmental results.

### What do you bring back from environmental management and resource efficiency training?

You bring back a site improvement plan with a ranked aspects register, efficiency projects, waste targets and a monitoring schedule. You also bring back templates for legal registers, water balances and internal audits.

## Environmental Management and Resource Efficiency: The Way Forward

The Site Environmental Improvement Plan supports the first decision a site manager faces: which controls and efficiency projects receive budget this year. HSE, operations and maintenance staff use it to align daily routines with environmental targets. After the first management review, the significance ratings and indicator thresholds deserve another look against monitoring results and audit findings.