

ABI- 11110 CERTIFICATE IN ENVIRONMENTAL AND POLLUTION MANAGEMENT©



COURSE OVERVIEW

This course provides the students with the opportunity to expand their understanding of environmental management as a means of reducing consumption and avoiding, minimizing or reducing pollution of the environment with a focus on the developed and developing world.

The course examines the statutory frameworks and policy measures for preventing and managing pollution, for improving resource efficiency. Relevant regional and international legislation and policy are also examined. Interesting and innovative examples of pollution control and resource management from industry will be presented and examined.

PRE-REQUISITE – none

DURATION - 1 week

TARGET AUDIENCE

- Safety professionals
- Environmental professionals
- Marine specialists
- Healthcare workers
- Relief and disaster management personnel
- Those holding environmental responsibilities

COURSE CONTENTS

Unit 1 – Principles of Environmental and Pollution Management

Element 1 – Fundamentals of Environmental and Pollution Management

- Introduction to environmental and pollution management
- Linkages between environmental and occupational health
- Linkages between food and agriculture
- Industrial pollution in developing countries / developing countries and pollution

Element 2 – Environmental health hazards

- Air pollution
- Land pollution
- Water pollution
- Energy and health
- Urbanization
- Global climate change and ozone depletion
- Biodiversity loss and human health

Element 3 – Environmental policy

- Occupational safety and health and the environment
- Sustainable development and the working environment
- Laws and regulations
- International environmental conventions
- Life-cycle assessment (cradle to grave)
- Risk assessment and communication
- Environmental management strategies and workers protection
- Environmental pollution control and corporate priority

Element 4 – Environmental pollution control

- Environmental pollution control and prevention
- Air pollution management
- Air pollution
- Air pollutant dispersion
- Air quality monitoring
- Air pollution control
- Water pollution control
- Principles of waste management
- Solid waste management and recycling
- Cleaner production technologies

Element 5 – health care waste management

- Introduction to healthcare waste
- Human health and environmental impacts
- Approach to health care waste management
- Health care waste Strategy Action Plan
- Components of health care waste and their associated health hazard
- Personnel protective equipment (PPE) for healthcare waste workers
- Health care waste management policy strategies
- Roles and responsibilities
- Healthcare waste treatment and disposal options
- Best practice health care waste incineration

Element 6 – marine pollution and management

- Marine pollution in context – causes and effects
- Air pollution and greenhouse c=gas emissions by shipping activities
- Oil pollution and offshore activities
- Marine environmental measurements and management systems
- Legal issues – including insurance and compensation

Element 7 – environmental management systems (EMS)

- Introduction to EMS and standards
- Initial environmental review
- Aspects and impacts identification
- Environmental legal and other requirements
- Developing and implementing an environmental policy and statement
- EMS manual
- Environmental programs
- Setting environmental objectives and targets
- Environmental auditing

Element 8 – environmental impact assessments

- The purpose of environmental impact assessment
- Legislation covering environmental impact assessment
- The stages of environmental impact assessment
- Preparing an environmental statement
- The procedures for submitting an environmental statement
- Consultation and communication
- Mitigation and monitoring of environmental impacts
- Strategic environmental assessment

This unit will be assessed by either a written test or e portal project

Unit 2 – Principles of Environmental and Pollution Management

This unit consists of an individual project carried out within the students workplace and should apply all the knowledge learnt throughout the course.

This project must be submitted for marking no later than 3 weeks after the written exam