

This course can be adapted to virtual classroom mode

Environmental Management

5 days
Overview

ENVMGT-EN-A

LEVEL

Knowledge

PURPOSE

This course provides a thorough and applied knowledge of best industry standards and practices for appraising environmental matters throughout the life cycle of a field development, to implement the management of impact and risks throughout the life cycle of a project from exploration up to abandonment.

LEARNING OBJECTIVES

Upon completion of the course, participants will be able to:

- explain the fundamentals of environmental management in terms of risks and impacts,
- describe techniques, fundamentals and contents of environmental impact assessments,
- identify mitigation measures,
- select key performance indicators, and set up environmental management plans,
- explain the content of an oil spill contingency plan.

WAYS AND MEANS

Several applications and illustrations.
Several case studies and teamwork sessions.

LEARNING ASSESSMENT

Continuous assessments all-along the program.

PREREQUISITES

Provide evidence of a professional experience of at least 3 months related to HSE and/or Oil & Gas process industry.

Agenda

FUNDAMENTALS OF ENVIRONMENTAL MANAGEMENT

0.5 d

Why environmental management is necessary. Concept of sustainability.
Definitions: environmental impact, significance, accidental vs. operational discharges, discharge and pollution.
Legal standards: definition, standard determination. Best available technology. Best environmental practices.
Environmental Quality Standards (EQS), discharge standards - Regional, international, conventions.
Introduction to social management.

ENVIRONMENTAL, SOCIAL & HEALTH IMPACT ASSESSMENT

1 d

Risk assessment: concept of hazards, risks, hazard identification and risk assessment process.
Impact assessment throughout the lifecycle of the project.
Aspect and potential impact identification.

Sources of environmental information.
Impacts on atmosphere: air pollution, GHG emissions.
Impacts on aquatic resources: water pollution and water availability.
Impacts on land resources: ground pollution and land use.
Impacts on biodiversity.
Socio-economic and cultural impact.

ENVIRONMENTAL MANAGEMENT PLAN

0.75 d

Concept and elements.
Control measures to reduce air emissions.
Control measures to reduce water consumption and water pollution.
Control measures to reduce land pollution and use.

MONITORING & REPORTING

0.5 d

Key performance indicators, Industry performance - Trends.
Environmental monitoring and surveillance.
Green house gases estimation and reporting.

WASTE MANAGEMENT PLAN

0.5 d

Strategy - Type of waste.
Waste collection.
Transport and storages (primary, final...).
Treatments options (biological, thermal desorption).

MANAGEMENT OF ENVIRONMENTAL EMERGENCIES

0.75 d

Identification of spill scenarios.
Oil spill contingency planning strategies: onshore and offshore cases.
Typical resources for oil spill contingency plans.

STAKEHOLDERS ENGAGEMENT

0.25 d

Stakeholders identification.
Engagement and information process.
Stakeholders engagement plan review.

ENVIRONMENTAL MANAGEMENT SYSTEM

0.5 d

Elements of environmental management systems.
Referentials and certification. ISO 14001.
EMS as part of integrated management systems.
Environmental culture and leadership in the organization.

ENERGY MANAGEMENT

0.25 d

Introduction to energy sources.
Energy efficiency. Measures for improvement.