

Training - Environmental Pollution and Waste Management



WASTMGT-EN-P



Face-to-face only



5 days

This course provides a thorough and applied knowledge of efficient techniques, industry standards and best practices for managing waste and environmental pollution

Level

Knowledge

Public

Managers, advisors, engineers and operations staff involved in the management of environmental issues all along the lifetime of a field development: from design to operation

Objectives

Attendees will be able to implement the following skills:

- Understand the stakes for the Oil & Gas industry for environmental management
- Understand contents of environmental impact assessments and mitigations (treatments)
- Identify mitigation measures, air treatment techniques, wastewater treatment, wastes treatment, soil remediation
- Implement an oil spill contingency plan, including the combating strategy
- Select key performance indicators and set up monitoring with environmental management plans

Pedagogical & technical resources

- Highly interactive training by industry-specialist lecturers
- Numerous applications and illustrations, case studies and teamwork sessions

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsible

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

INTRODUCTION TO WASTE & POLLUTION MANAGEMENT

0.25 day

Environmental stakes of Oil & Gas companies and projects.
Environmental mitigation measures principles.

ATMOSPHERIC POLLUTION & TREATMENT

1 day

Air emission and pollutant inventory. Greenhouse gases.

Flare emissions reduction techniques.

Case studies:

- Gas injection and gas lift.
- Gas valorization strategies.

Process emissions reduction. Control of fugitive emissions.

Reduction of emissions related to power generation:

- Electrification.
- Energy efficiency strategies.

Logistics management to reduce emissions.

WASTE EFFLUENT POLLUTION & TREATMENT

1.25 days

Waste effluent inventory (production water, cooling water), pollutants.

Production water treatment and disposal:

- Primary: API tanks, plate separators.
- Secondary: flotation, coalescent filters, hydrocyclones.
- Tertiary: membranes, biological treatments.
- Chemicals and chemical treatments.
- Water injection.

Open drain and closed drains: collection and treatment.

Drilling fluids treatment:

- Water base mud recovery and cuttings treatment.
- Oil base mud recovery and cuttings treatment.

Domestic effluents treatment:

- Isolated camps treatment options.
- Permanent camps treatment options.

OIL SPILL RESPONSE AT SEA - TECHNOLOGIES

1 day

Content of an oil spill contingency plan.

Offshore spill treatment (dispersants, booms and recovery...).

Onshore spill treatment (pumping, skimming, bioremediation, thermal desorption...).

SOLID WASTE TREATMENT TECHNOLOGIES

0.5 day

Chemical treatments.

Physical treatments.

Disposal methods: advantages/drawbacks.

POLLUTION & REMEDIATION TECHNIQUES

0.75 day

Treatment selection: in-situ, onsite, ex-situ.

When and how applying technologies: physical, chemical, biological treatments.

Case study.

MONITORING & REPORTING

0.25 day

Main key performance indicators related to pollution control and waste treatment.

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.

Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com