

Upstream Project Construction HSE Management

5 days

PCONS/CONST3GB

Overview

LEVEL

Proficiency

PURPOSE

This course raises awareness about HSE on the construction site and the necessity to develop management tools.

LEARNING OBJECTIVES

Upon completion of the course, participants will be able to:
evaluate and manage HSE and security risks on the construction site,
apply construction management skills,
monitor and control HSE tools.

WAYS AND MEANS

Exercises for each step of the construction process,
Numerous examples taken from Oil & Gas construction activities.

LEARNING ASSESSMENT

Quiz at the end of the module.

PREREQUISITES

No prerequisites for this course.

Agenda

SAFETY RISK MANAGEMENT ON THE FIELD

0.5 d

HSE prevention plan: definition and evaluation of risk, subcontractor organization and training.
Preventive action plan.

HSE MANAGEMENT

1.5 d

HSE incident management: root cause analysis of incidents, including consequence analysis. Immediate actions.
Corrective and preventive actions.
Reporting.
Communication and crisis management.
Emergency response plan. Communications.
Experience feedback.

ON SITE HSE

0.5 d

Surveillance: surveillance plan, field HSE audits, safety tour, behavioral observations, subcontractor HSE evaluation.
Monitoring of SIMOPS activities.

AUDITS

0.5 d

Objectives of an audit.

Pre-audit preparations: boundaries, expectations, checklists, plans.

Findings vs. expectations.

HAZARD IDENTIFICATION & RISK ASSESSMENT OF MAINTENANCE & CONSTRUCTION WORKS

1.5 d

Risk assessment and recommended mitigation measures associated to:

Lifting: manual and mechanical.

Work at height/over water/diving.

Use of tools: sand blasting, lifting, chemical and HP cleaning, hydraulic tests, flexible pipes, welding tools, milling...

Radioactive sources: hazards, markers, use.

Electrical equipment: electrical classes, hazards, habilitation, consignment, personnel protection.

Confined space works: ventilation, gas detection, oxygen content of air, penetration, evolution of hazard during works, supervision.

Hydrostatic testing.

Welding/grinding/cutting.

SECURITY

0.5 d

Security management: definition, site management with regards to external events (robbery, kidnapping, data).

Security control and technologies.