

Subsea Integrity Management (II) - Non Conformity Management

5 days

INSP/SUBINT2

Overview

LEVEL

Proficiency

PURPOSE

This course provides technical knowledge pertaining to the integrity management of subsea systems.

LEARNING OBJECTIVES

Upon completion of the course, participants will be able to:
determine integrity characteristics,
evaluate consequences of failures,
plan repairs.

WAYS AND MEANS

Lectures carry numerous examples from ongoing projects.
Trainers are specialized engineers currently involved in deep offshore projects.

LEARNING ASSESSMENT

Written test upon training course completion.

PREREQUISITES

No prerequisites for this course.

Agenda

PHYSICAL & STRUCTURAL INTEGRITY ISSUES & THEIR MAIN CONSEQUENCES

Stress and fatigue.
External corrosion, internal erosion/corrosion.
Hydrogen induced stress cracking.
External event.
Thermal Insulation, heat loss.
Case studies, prevention & remediation.

“FUNCTIONAL” INTEGRITY ISSUES & THEIR MAIN CONSEQUENCES

Defective subsea retrievable modules.
“Internal” leakages (passing valves, passing non-return valves...).
Leaks to environment.
Electrical lines/conductors defects.
Monitoring sensors signal loss.
Hydraulic locks.
Chemical lines blockages.

NON CONFORMITY MANAGEMENT

Objective.

Non conformity.
Non conformity "dossiers".
Non conformity register/database.

MAINTENANCE & REPAIR

Planned events.
Unplanned events.