Subsea Installation & Vessels

Presented by

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Outline

Lecture 1: Introduction to Subsea Vessels & Installation

Lecture 2: Types of Installation Vessels
   - Transportation Barges and Tug Boats
   - Drilling Vessels
   - Pipe Laying Vessels
   - Umbilical Laying Vessels
   - Heavy Lift Vessel
   - Offshore Support Vessels

Lecture 3: Vessel Requirements and Selection
   - Basic Requirement for Vessels & Barges
Outline

Lecture 4: Functional Requirement
  - Vessels for Subsea Hard Ware Installation
  - Vessels for Pipe and Umbilical Laying

Lecture 5: Installation Positioning
  - Surface Positioning
  - Subsea Positioning

Lecture 6: Installation Analysis
  - Subsea Structure Installation Analysis
  - Pipeline / Riser Installation Analysis
  - Umbilical Installation Analysis
Lecture 1: Introduction to Subsea Installation & Vessels

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Introduction

- Most subsea structures are built onshore and transported to the offshore installation site.

- The process of moving subsea hardware to the installation site involves three operations:
  - load-out,
  - transportation, and
  - Installation operations

- A typical subsea installation also includes three phases:
  - lowering,
  - landing, and
Introduction cont..

✓ locking (e.g., subsea tree, manifold, and jumper).

☐ The objective of this is to provide a basic understanding of the installation concepts and vessel requirements for subsea engineering.

☐ The main modules of this course are as follows:

✓ Typical installation vessels;
✓ Vessel requirements and selection;
✓ Installation positioning;
✓ Installation analysis.