



Offshore Structures — International

Design—Construct—Operate—Maintain—Repair

Offshore Structures — International

The Office of Professional Development of the Project Executive Group (PEG) is pleased to introduce its **Offshore Structures: Design - Construct - Operate - Maintain - Repair Course** from its Master Marine Services division.

The focus is on **platforms and FPSOs**. It is designed to help participants add substantial knowledge and gain the most from their offshore experience.



Project Executive Group, Inc.
A Master Marine Services Course
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Your Performance Multiplier



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DAY ONE

Operations Overview

Introduction to Operations in Oil & Gas - Exploration Drilling Rigs - Drilling a Well - Exploration Drilling Development Drilling & Completion - Production & Workover - Oil & Gas Transportation

Elements of Ocean Engineering & Offshore Engineering

Offshore Structures - Support Vessels - Safety Systems - Piping Systems & Process Pressure Vessels Production - Underwater Engineering - Drilling - Well Maintenance - Structural Steel - Welding

DAY TWO

Construction of Offshore Structures

Marine Offshore Physical Environment - Geotechnical Aspects Sea Floor Marine Soils - Ecological Societal Impacts - Materials & Fabrication - Marine Offshore Construction Equipment - Marine Operations - Sea Floor Modifications & Improvements - Installation of Piles - Offshore Platforms, Steel Jackets, Pin Piles Concrete Offshore Platforms and Gravity-Based Structures (GBS) - Permanently Floating Structures Other Applications in Construction Technology - Installation of Submarine Pipelines - Plastics Composition and Cables - Topside Installation - Constructability - Deep Sea

DAY THREE

Design & Construct the FPSO

Cost Optimization in FPSO Design - Contracting Successfully for FPSO Construction - FPSO Construction Management - Tanker Conversion to FPSO - Conversion Considerations - Tanker Survey Preparation Guidelines - Tanker Survey Execution Guidelines - Tanker Survey Data Analysis Guidelines - Class Societies Unified Requirements for Hull Surveys - Entry Work in Enclosed Spaces - Failure Details

DAY FOUR

Start Up and Commissioning (SUC) Offshore Structures

SUC Planning - SUC KPIs and Report Structures - SUC Defining Scope and Building Schedules

Offshore Operations

Introduction to Operations of Offshore Structures - HSE (Health Safety Environment) - Risk Management Legislative Shipping Standards - Joint Operations Manual - Preliminary Assessment of Off-take Vessels Communications - Pre-Arrival Safety Procedures - Equipment - Operations - Emergency Contingency Planning

DAY FIVE

Maintenance & Repair

Repairs to Marine Structures - Strengthening Existing Structures - Removal & Salvage of Platforms