PETEX Introductory Courses

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Oil & Gas Processing

March, 2012

Your company is invited to participate in these training programs. For additional information, contact—

PETEX Learning and Assessment Center
The University of Texas
412 North Sam Houston Parkway West, Suite 800
Houston, TX 77086
Tel: 800.687.7052
or 281.397.2440
FAX: 281.397.2441
Email: plach@www.utexas.edu

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Introduction to Offshore Operations
(The Rig School)
3.3 CEUs, 35 CPEs for Texas Accountants (no prerequisites required), 30 CE for TDI licensees, 27 CE for Texas Landmen, and 3 MCLEs for Texas Lawyers

Length: 3.5 Days

GEOLOGY AND GEOPHYSICS IN OFFSHORE EXPLORATION
• Rock types, depositional systems, and structure
• Petroleum systems
• Geophysical (seismic) acquisition

OFFSHORE LEASE ACQUISITION
• Regulatory overview
• Lease sale process
• Bidding process
• Lease terms
• Awarding leases
• Partnerships

DRILLING
• Basic drilling process and terms
• Well planning and business aspects
• Special operations
• Drilling—offshore considerations

OFFSHORE PRODUCTION
• Processing of production fluids from platform wells
• Safety shut-in systems
• Subsea production system
• Gas handling and compression
• Disposal of produced H₂O, H₂S

MARITIME AND STATE LAW
• What law applies
• General maritime law
• Personal injury
• Seaman causes of action
• Typical offshore claims
• Oilfield contracts
• Risks under contracts
• Various states and maritime indemnity law
• Risk sharing

OFFSHORE REGULATIONS
• Drilling
• Production

OFFSHORE STORAGE AND TERMINALS
• Offshore storage types
• Offshore storage options

Introduction to Offshore Operations, cont.

OFFSHORE CATASTROPHES AND EMERGENCY RESPONSE
• Catastrophes
• Lessons learned
• Responding to emergencies

INSURANCE FOR OFFSHORE OPERATION
• Personnel
• Accidents, blowouts, and weather
• O.E.E./E.E.D. insurance
• Rating areas
• Property insurance

THE ECONOMICS OF OFFSHORE EXPLORATION AND DEVELOPMENT, AN INVESTMENT DECISION-MAKING VIEW

Recommended For
New employees; attorneys; insurance and financial employees; administrative personnel; and anyone who needs a basic knowledge of offshore operations.

Elementary Drilling
3.3 CEUs, 33 CPEs for Texas Accountants (no prerequisites required), 27 CE for Texas Landmen

Length: 4 Days

HISTORY OF DRILLING FOR OIL AND GAS

PRELIMINARY TO DRILLING
• What oil is and how it is formed
• Exploration
• Types of reservoirs
• Planning the well

DRILLING RIGS
• Rig types
• Moving in and rigging up

THE HOISTING SYSTEM
• Bases (substructures)
• Derricks and masts
• Drawworks
• Driller’s control console
• Wirelilies
• Traveling assembly
• Weight indicator
• Automatic drillers

Elementary Drilling, cont.

THE ROTATING SYSTEM
• Swivel
• Kelly and kelly drive bushing
• Rotary table
• Top drives
• Rotary torque indicator
• The drill stem
• Downhole motors
• Drilling bits
• Core barrels and coring

POWER AND POWER DISTRIBUTION SYSTEMS
• Prime movers
• Electric drives
• Mechanical drives

DRILLING PROCEDURES
• New terms and acronyms
• Typical drilling procedures step-by-step

THE BLOWOUT PREVENTER SYSTEM
• Purposes of the BOP system
• Well control equipment
• Blowouts and their causes

THE CIRCULATING SYSTEM
• Drilling fluid
• Mud pumps
• Surface connections
• Introduction to downhole hydraulics
• Flow line and accessories
• Solids control devices
• Mud pit equipment

FISHING AND FISHING TOOLS

DIRECTIONAL DRILLING
• Downhole measurements
• Steerable motor concept
• Reference systems and coordinates
• Directional well planning
• Directional drilling tools

WELL COMPLETIONS
• Setting production casing
• Perforating
• Running tubing and installing the christmas tree
• Acidizing
• Fracturing

Recommended For
Entry-level personnel in the drilling industry and personnel not directly involved in drilling but for those who need basic drilling principles and nomenclature.