

## OTHER PETEX COURSES

Advanced Petroleum Measurement  
Basic EOR (Enhanced Oil Recovery)  
Basic Petroleum Measurement  
Completion and Workover  
Electrical Maintenance—Equipment and Application  
Electrical Maintenance Fundamentals for Production  
Lease Operations  
Elementary Drilling  
Elementary Electronics for Nonelectrical Personnel  
Engine and Compressor Operations  
Field Handling of Natural Gas—Emphasis on Engineering  
Field Handling of Natural Gas—Emphasis on Operat.  
Gauging, Testing, and Running of Lease Tanks  
Hydraulics for Pipeline Engineers  
Hydraulics for Pipeline Operators  
Instruments and Controls  
Introduction to Offshore Operations  
Introduction to Programmable Logic Controllers  
LNG: Basics of Liquefied Natural Gas  
Mass Measurement of Hydrocarbon Fluids  
Natural Gas Measurement—Design/Application/Inspection  
Natural Gas Measurement—Electronic Flow Measurement  
Natural Gas Measurement—Fundamentals  
Natural Gas Measurement—Sampling and Analysis  
Pipeline Technology  
Plant Processing of Natural Gas—Emphasis on  
Engineering  
Plant Processing of Natural Gas—Emphasis on Operat.  
Production Technology  
Reciprocating Compressor/Prime Mover Operations  
Supervisory Control and Data Acquisition Systems (SCADA)  
Valves and Actuators (Operation and Maintenance)  
ValvePro® Certified Valve Maintenance Technician

### Enrollment Information

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

Houston Training Center  
The University of Texas  
2700 W. W. Thome Blvd.  
Houston, TX 77073  
Tel: 800.687.7052  
or 281.443.7144  
FAX: 281.443.8722  
Email: [petexhtc@www.utexas.edu](mailto:petexhtc@www.utexas.edu)

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*For more info about PETEX, check out our Web site at [www.utexas.edu/ce/petex](http://www.utexas.edu/ce/petex)*



THE UNIVERSITY OF TEXAS  
CONTINUING EDUCATION  
PETROLEUM EXTENSION SERVICE  
1 University Station, R8100  
Austin, TX 78712-1100



THE UNIVERSITY OF TEXAS



## PETEX Introductory Petroleum Courses

- Petroleum Fundamentals
- Economics of the Petroleum Industry—Risk and Uncertainty



[www.utexas.edu/ce/petex](http://www.utexas.edu/ce/petex)

## Petroleum Fundamentals

3.3 CEUs, 32 CPEs for Texas\* Accountants (no prerequisites required), 30 CEUs for TDI licensees, 27 CEUs for Landmen

**Length:** 4½ Days

### INTRODUCTION TO PETROLEUM

- Defining petroleum
- History of petroleum
- Uses of petroleum

### PETROLEUM GEOLOGY AND SEISMIC EXPLORATION

- Hydrocarbons and their origin
- Rock types, depositional environments, and structures
- Petroleum systems
- Petroleum exploration

### ASPECTS OF LEASING

- Types of ownership
- The lease and the law
- Preparations for leasing privately owned land
- Provisions of the lease
- Execution of the lease
- Transactions after leasing
- Leasing public lands

### DRILLING OPERATIONS

- Engineering technical concepts
- Development of drilling for oil
- Rotary drilling systems
- Routine drilling operations
- Development of offshore drilling
- Mobile offshore drilling units (MODU)
- Offshore drilling platforms
- Directional drilling
- Fishing
- Air or gas drilling
- Completing the well

### WELL CONTROL

### PRODUCTION

- Early production methods
- Well completion

*\*If you are a member of a professional organization from a foreign country or a state other than Texas, your organization may award professional credits based on these Texas approvals. Call 512.471.5979 for more information.*

## Petroleum Fundamentals, cont.

- Well testing
- Reservoir stimulation
- Reservoir drive mechanisms
- Artificial lift
- Improved recovery techniques
- Well servicing and workover
- Surface handling of well fluids
- Measuring and testing oil/gas

### TRANSPORT OF PETROLEUM—OFFSHORE AND ONSHORE

- Onshore
- Offshore

### REFINING AND PROCESSING

- Basics of hydrocarbon relevant to refinery processes
- Processing basics
- Description of main processing steps

### MACRO-ECONOMIC OUTLOOK FOR ENERGY, FOSSIL FUELS, AND PETROLEUM

#### Recommended For

New employees; attorneys; insurance, financial, and accounting employees; secretaries; clerks; or anyone who needs a fundamental overview of the petroleum industry



## Economics of the Petroleum Industry—Risk and Uncertainty

3.3 CEUs

**Length:** 4½ days

Do you need a fundamental understanding of the financial and economic operations of the petroleum industry? Get the answers to these questions:

- What does the future hold?
- How are decisions made and who are the key players in the industry?
- How has the industry evolved?
- What are unconventional resources and what role will they play?
- Is the price of oil too high?
- Will we run out of crude oil?
- What are renewables and do they matter?

This course provides a comprehensive grounding in the economic dynamics of this changing industry.

### WHERE WE STAND TODAY

### CONVENTIONAL WISDOM

### INDUSTRY ECONOMICS AND RESERVES

### THE PETROLEUM INDUSTRY PAST TO PRESENT

- Crude oil and natural gas prices
- Consolidation and mergers
- Role of capital markets
- Capital investments
- Last frontiers for exploration
- Forecasting to 2020

### FINANCIAL ANALYSIS—KEY DRIVING FORCES

### MICRO-ECONOMICS OF THE FIRM

### FUTURE OF THE PETROLEUM INDUSTRY

#### Recommended For

Engineers; senior supervisors; managers; strategic planners and project leaders; accountants and analysts; related industry personnel involved in project economics or purchasing or selling hydrocarbon commodities; and anyone seeking a comprehensive understanding of the economics of the oil and gas industry