

OTHER PETEX COURSES

Advanced Petroleum Measurement
Basic Petroleum Measurement
Electrical Maintenance Fundamentals
Electrical Maintenance—Equipment and Application
Elementary Drilling
Elementary Electronics for Nonelectrical Personnel
Engine and Compressor Operations
Field Handling and Plant Processing of Natural Gas
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
Petroleum Fundamentals
Petroleum Industry Fundamentals for Accountants
Petroleum Industry Fundamentals for Insurers
Pipeline Technology
Reciprocating Compressor/Prime Mover Operations
Supervisory Control and Data Acquisition Systems (SCADA)
Valves and Actuators (Operation and Maintenance)

Enrollment Information

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

PETEX
Houston Training Center
The University of Texas
2700 W. W. Thorne Blvd.
Houston, TX 77073
Tel: 800.687.7052
or 281.443.7144
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For more info about PETEX, check out our Web site at 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 Production Courses

- Production Technology
- Completion and Workover



www.utexas.edu/ce/petex

Production Technology

7.1 CEUs

Length: 9½ days or Subsurface: 5 days (3.8 CEUs)
Surface: 4½ days (3.3 CEUs)

1st Week—Subsurface

RESERVOIR FUNDAMENTALS

- Reservoir rock characteristics
- Reservoir fluids
- Fluid flow
- Overview of reservoir drives
- Methods of determining reserves
- Reservoir stimulation

NATURAL DRIVE MECHANISMS

- Water drive
- Dissolved gas drive
- Gas-cap expansion drive
- Combination drive

ARTIFICIAL LIFT MECHANISMS

- Artificial lift methods
- Artificial lift selection criteria
- Electric submersible pumps
- Sucker rod pumping
- Progressive cavity pumps
- Hydraulic jet pumps
- Capillary injection string
- Plunger lift
- Gas lift

WELLHEAD EQUIPMENT

- Equipment overview
- Equipment types
- Installation, testing, maintenance
- Wireline equipment

ENHANCED RECOVERY

- Well performance and surveillance
- Secondary recovery
- Waterflood
- Chemical methods
- Miscible methods
- Thermal methods
- Tertiary/CO₂ recovery

OFFSHORE PRODUCTION—SPECIAL CONSIDERATIONS

2nd Week—Surface

SEPARATION

- Multi-phase fluids
- Separating gas and liquids
- Separating liquids and condensate
- Test separators

TREATING LIQUIDS

- Liquid dehydration
- Free water knockout
- Valves and controls

TREATING GAS

- Dehydration
- Gas treating
- Safety

MEASURING LIQUIDS AND GASES

- Measuring liquids
- Gas measurement

PRODUCED WATER MANAGEMENT AND DISPOSAL

LEASE AUTOMATION AND EMERGENCY SHUTDOWN

- Types of equipment
- Human/machine interface
- Master
- Communications
- RTU
- End devices
- SCADA system
- Types of ESD systems
- Maintenance and safety considerations

Production Technology, cont.

OIL AND GAS CORROSION

PRODUCTION OPERATIONS PRACTICES

Recommended For

Technicians, foremen, production operators, and workover personnel

Completion and Workover

7.1 CEUs

Length: 9½ days or 1st Week: 5 days (3.8 CEUs)
2nd Week: 4½ days (3.3 CEUs)

1st Week

PLANNING THE JOB

- Rotary vs service rig
- Equipment checklist
- Logistics—scheduling

PIPE RECOVERY

- Freepoint backoff operations
- Jet cutter operation
- Chemical cutter operations

FISHING

- Loose junk
- Wireline fishing
- Specialized tools

WIRELINE OPERATIONS

- Surface equipment
- Wireline tools

WELL LOGGING

- Open-hole logging
- Fluids
- Collar logs
- Cement bond logs

SELECTION OF DOWNHOLE EQUIPMENT

- Packers
- Seal assemblies
- Landing nipples
- Preparation for future downhole work

SOLVENT AND CHEMICAL TREATING, SCALE AND PARAFFIN REMOVAL AND CONTROL

- Types of solvents, acids, and scale deposits
- Applications and restrictions
- Formation damage
- Safety consideration

SAND CONTROL

- Gravel pack
- Screen and liner

COMPLETION FLUID

- Safety & environmental considerations
- Fluids
- Guidelines & issues
- Brine economics
- Fluid loss control material/selection
- Displacements
- Mass balance

CASING AND TUBING

- Selection and use of casing, tubing, and drill pipe
- String design considerations

Completion and Workover, cont.

2nd Week

PERFORATING

- Casing
- Down tubing
- Unbalanced
- Jet vs fluid

FRACTURING

- Purpose of fracturing
- Mini-fracturing
- Fracturing fluids selection

PRIMARY CEMENTING AND SQUEEZING

- Mud displacement
- Bond logging
- Cement and additives
- Plug cementing
- Squeeze cementing
- Cement durability

SIDETRACKING

- Drill out below casing
- Cut window and sidetrack

LINERS

- Applications
- Liner hangers
- Running liner in well
- Hanging liner
- Disconnect running tool
- Cementing liner

COIL TUBING AND NITROGEN

- Application
- Tools and equipment
- Safety considerations

PRIMARY TESTING

- Pour point
- Bottomhole samples
- Swab test
- Bottom pressure buildup test

EVALUATION OF TESTS

- Absolute open flow
- Gas and oil analysis
- H₂S analysis
- GOR determination

ACCIDENT PREVENTION

Recommended For

Technicians, foremen, and supervisory-level production operators, workover personnel, and drilling personnel

*Need on-site training?
These courses can be customized
to meet your company's needs.
For more information please call
281.443.7144.*

