PETEX CATALOG
INSTRUCTOR-LED TRAINING | PUBLICATIONS AND VIDEOS | E-LEARNING | CUSTOM COURSES

Training the Energy Industry Since 1944
In our 75 years as a leader in education, training programs, and talent development resources for the oil and gas industry, PETEX has experienced and is accustomed to ongoing, changing market conditions and workforce demands. As part of The University of Texas at Austin and the Cockrell School of Engineering, our number one priority is supplying our learners and education providers with top-tier educational resources while administering lifelong education support to learners in all phases of their lives. We understand and appreciate that not all educational journeys look the same, and we pride ourselves on being able to provide various options to help learners achieve success.

Since 1944, we have provided the oil and gas industry with professional development opportunities and educational materials that include a vast portfolio of custom on-site courses, certificate programs, instructor-led training, self-directed e-learning, videos, and publications. We invite you to explore our catalog to see how we can help take your career or enterprise to the next level.

All companies are unique. Customize your workforce training to reflect your company’s needs. PETEX can tailor any of our current online or instructor-led courses, modules, or certificate programs to your company’s requirements or even design a course from scratch! With limitless options, we are confident that we can build a quality, efficient, and reusable training resource for your employees. For more information see petex.utexas.edu/courses/custom-courses.
PETEX published the definitive guide to rotary drilling nearly 70 years ago. Since then, the oil and gas industry has changed dramatically. The rugged tools that are used for drilling are now steered by smart technology and state-of-the-art devices. Safe working conditions and initiatives to protect the environment are mandated by government regulations and company rules, and drilling now often occurs in remote locations under extreme conditions.

As the O&G industry continues to advance, so do we. Today at PETEX, a team of highly-skilled instructional designers and content development specialists are working closely with O&G experts to design highly innovative learning tools that support the professionals, small businesses, and large corporations that comprise the **upstream**, **midstream**, and **downstream** sectors. Each year, we host dozens of courses on the topics that matter most to you at our training centers in Houston and Odessa, Texas, and we’re constantly researching new ways to serve the industry.

We invite you to look through this year’s catalog to discover how we can help you achieve your career or company goals. As you will see, we offer an array of learning tools and services for prospective, entry-level, and skilled professionals in each sector of the industry:

**Upstream.** Exploration, land management, drilling, completion, well stimulation, production, and workover/intervention

**Midstream and Downstream.** Pipeline, transportation, storage, refining, and infrastructure maintenance

No matter your area of expertise, PETEX has a learning solution for you.

**LEARNING TOOLS AND SERVICES**

Choose from a variety of learning tools and services that fit your schedule and learning style. Individual and enterprise solutions are available.

**Certificate Programs.** Enroll in one of our instructor-led training courses, or select a qualified e-learning program to earn a professional certificate and continuing education units (CEUs) from The University of Texas at Austin–PETEX. See page 7 for more information.

**Instructor-Led Training.** We offer short-term classes, both online and in-person, throughout the year that combine interactive lectures from subject matter experts with lab work and immersive field trips through virtual and physical modalities. Earn a certificate of completion plus CEUs while broadening your professional network. See page 10 for more information.

**E-Learning.** Earn professional CEUs on the go with select e-learning programs, which assess your understanding of O&G topics and procedures through engaging online activities, or earn a certificate of completion from UT Austin by successfully completing our e-learning modules. See page 21 for more information.

**Videos.** Our collection of videos covers a wide-range of industry topics, including onshore and offshore drilling and production. See page 29 for more information.

**Publications.** Expand your professional library with our extensive line of print and e-books. Our recent releases are filled with dozens of color photos and illustrations, review questions, and glossaries for quick referencing. See page 35 for more information.

**Custom Programs.** We can customize many of our learning solutions to better serve your enterprise. Our learning specialists can work with you to align our products to your brand or build an entirely new competency-based program from scratch. Send your inquiries in an email to info@petex.utexas.edu to learn more.

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- **The Texas State Board of Public Accountancy** awards CPEs to members who complete Petroleum Fundamentals and The Rig School. These courses do not require any prerequisites.

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  Austin, TX 78741
  Phone: +1 512.440.7723
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<td>2.5 CEUs</td>
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<td></td>
<td>A Primer of Oilwell Drilling</td>
<td>3.0 CEUs</td>
<td>pg. 37</td>
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<td></td>
<td>Routine Drilling Operations</td>
<td>3.0 CEUs</td>
<td>pg. 38</td>
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<td></td>
<td>So You Want to Be a Roughneck?</td>
<td>0.1 CEUs</td>
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<td>Special Drilling Operations</td>
<td>3.0 CEUs</td>
<td>pg. 38</td>
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<tr>
<td>Offshore</td>
<td>The Rig School—Introduction to Offshore Operations</td>
<td>3.3 CEUs</td>
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<td>Well Control</td>
<td>Introduction to Well Control</td>
<td>0.1 CEUs</td>
<td>pg. 32</td>
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<td>Production</td>
<td>Field Handling of Natural Gas, Volume 1—Production and Conditioning</td>
<td>2.0 CEUs</td>
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<td>pg. 44</td>
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<td>LNG: Basics of Liquefied Natural Gas</td>
<td>1.9 CEUs</td>
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<td>Plant Processing of Natural Gas</td>
<td>3.0 CEUs</td>
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<td>Production Basics e-Course</td>
<td>0.8 CEUs</td>
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<td>Production Technology</td>
<td>6.0 CEUs</td>
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<td></td>
<td>Valves and Actuators—Operation and Maintenance</td>
<td>2.2 CEUs</td>
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<td>Completion and Workover</td>
<td>Completion and Workover</td>
<td>3.0 CEUs</td>
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<tr>
<td>Measurement, Control, and Storage</td>
<td>Advanced Petroleum Measurement</td>
<td>3.3 CEUs</td>
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<td>Fundamentals of Petroleum Measurement</td>
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<td>Intermediate Petroleum Measurement</td>
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<td>Mass Measurement of Hydrocarbon Fluids (Direct and Inferred)</td>
<td>3.3 CEUs</td>
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<td>Meter Assessment/Measurement Audit</td>
<td>0.4 CEUs</td>
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<td>NGM: Fundamentals</td>
<td>2.4 CEUs</td>
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<td>Tank Calibration Witness</td>
<td>0.4 CEUs</td>
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<td>Pipeline</td>
<td>Hydraulics for Pipeline Engineers</td>
<td>3.0 CEUs</td>
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<td></td>
<td>Pipeline Technology</td>
<td>10.1 CEUs</td>
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<td></td>
<td>30 CPEs for TX Landmen</td>
<td>0.1 CEUs</td>
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<td>Refining</td>
<td>Material Loss Control in Refineries and Petrochemical Plants</td>
<td>0.1 CEUs</td>
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Each year, PETEX hosts a wide variety of instructor-led training courses in Houston and Odessa, Texas or online to enhance your understanding of the oil and gas industry. Taught by skilled experts with a wealth of real-life experiences, our instructors are passionate about what they do and are dedicated to your success both in and out of the classroom. Learn through robust discussions and interactive activities while building a network of professional contacts. Takeaways include helpful handouts and learning materials. Some courses include field trips, onsite lab work, and exams to assess learning outcomes. Receive continuing education units (CEUs) and a certificate of completion from The University of Texas at Austin–PETEX at the end of each course. See our full schedule of courses on pages 19–20.

**Face-to-face and hybrid instructor-led courses are held at:**

**Houston Training Center**
11450 Compaq Center W. Dr., Bldg. 9, Suite 100
Houston, TX 77070

**West Texas Training Center**
The University of Texas at Permian Basin
South Road
Odessa, TX 79762

### OFFSHORE STRUCTURES PROFESSIONAL DEVELOPMENT COURSES

Texas Engineering Executive Education’s three offshore structure short courses offer a comprehensive overview of the fundamentals and practical aspects of offshore structures. The three courses comprise the brand-new “Fundamentals of Offshore Engineering Professional Certificate Program”. If participants complete all three courses within three years, they will receive the certificate. In addition, previous participants of DFOP/DFPS are eligible to receive this credential. These courses are offered in a live-online modality in partnership with Offshore Technology Research Center, The University of Texas at Austin, and Texas A&M University.

#### Fundamentals of Offshore Structures
2.85 CEUs
Developed specifically for engineers, scientists, and technologists, this course offering will review the fundamentals of all types of offshore structures (fixed or floating). The overall objective is to provide participants with an understanding of the design and construction of offshore platforms, specifically the theory and process of such design.

**Recommended For**
Engineers (BS holders) who work in the offshore industry, and wish to receive a comprehensive overview of the fundamentals and practical aspects of offshore structures. Best suited to new or recent hires or those who aspire to work in the offshore industry.

**Length**
10 days / 3 hrs per day

**Cost**
- Early Registration—$1,250
- Regular Registration—$1,360
- Discounted Registration—$1,200

#### Design of Fixed Offshore Platforms, cont.
Best suited to new or recent hires or those who aspire to work in the offshore industry.

**Length**
10 days / 3 hrs per day

**Cost**
- Early Registration—$1,250
- Regular Registration—$1,360
- Discounted Registration—$1,200

#### Design of Floating Production Systems
3.3 CEUs
This course is a must for professionals seeking understanding of the design and construction of floating platforms. Taught through a combination of lectures and discussion, you will gain a complete understanding of the fundamental design process and modern design practices in this field. Design principles are applied to ensure functionality and safety of various types of floating offshore structures, including tension leg platforms, semi-submersibles and FPSO’s. In addition, the theory and current practical engineering methods in relation to the design and construction of floating platforms will be covered. The final result of this course is real-world knowledge of the complete design process that you can apply immediately in the workplace.

**Recommended For**
Engineers (BS holders) who work in the offshore industry, and wish to receive a comprehensive overview of the fundamentals and practical aspects of offshore structures. Best suited to new or recent hires or those who aspire to work in the offshore industry.

**Length**
10 days / 3 hrs per day

**Cost**
- Early Registration—$1,495
- Regular Registration—$1,625
- Discounted Registration—$1,425

CONTACT execed@engr.utexas.edu for more information
GENERAL INDUSTRY/DRILLING

POPULAR SCHOOL
Petroleum Fundamentals
3.3 CEUs, 35 CPEs for Texas Accountants, 27 CEIs for Texas Landmen
Covers the basics of petroleum, starting with industry terminology, geology, exploration, and leasing. Reviews drilling, production, transportation, equipment usage, and operating procedures upstream, midstream, and downstream. Addresses safety, economics and regulatory concerns. Customized, condensed course versions available.

Course Content
• Petroleum geology and exploration
• Aspects of leasing
• Drilling rig components and personnel
• Routine and nonroutine drilling operations
• Well control
• Production operations
• Petroleum transportation offshore and onshore
• Refining and processing
• Macroeconomic outlook of the upstream oil and gas business

Recommended For
New employees; attorneys; insurance, finance, accounting, and administrative personnel; and anyone who needs an overview of the petroleum industry.

Included with Course
• Catered lunch daily; beverages and snacks provided
• Industry field trip
• Course materials including instructor presentations
• Publication: Fundamentals of Petroleum, 5th ed.

Recommended Book (discount when purchased during course): A Dictionary for the Oil and Gas Industry, 2nd ed.

Dates November 15–19, 2021
Length 4.5 days
Cost $2,695

NEW COURSE
Fundamentals of Energy Resource
0.4 CEUs
In this course, you will receive comprehensive training on all aspects of the ownership and valuation of oil and gas minerals, surface, wind and solar rights. This course will educate and equip you with the tools and resources needed to calculate the property rights value and prepare you to transact.


Course Content
• Property rights ownership
• Common ownership problems
• Land resource transactions
• Realizing the value of land resources
• Valuation of land resources

Recommended For
Landowners, oil and gas professionals, real estate agents, real estate brokers, solar farm developers, and wind farm developers.

Included with Course
• Course materials including instructor presentations

Dates February 17, 2021 (Online)
          May 11, 2021 (Online)
          August 31, 2021 (Online)
          December 2, 2021 (Online)
Length 4 hours (9:00-1:00pm CST)
Cost $485.00

REVISED
Elementary Drilling
3.0 CEUs
Covers basic onshore and offshore drilling practices and rotary rig components while providing an in depth look at well planning, rig systems, directional drilling, well control, fishing operations, deepwater drilling, and safety practices.

Course Content
• Introduction to petroleum
• Well planning
• Types of drilling rigs
• Power, hoisting, rotating, and circulating systems
• Blowout preventer system
• Drilling operations
• Well completions
• Deepwater drilling
• Rig safety

Recommended For
Entry-level drilling personnel and other professionals who need to know basic drilling principles and nomenclature.

Included with Course
• Catered lunch daily; beverages and snacks provided
• Industry field trip
• Course materials including instructor presentations
• Publication: A Primer of Oilwell Drilling, 7th ed.

Dates August 2–5, 2021
Length 4 days
Cost $2,595

OFFSHORE

POPULAR SCHOOL
The Rig School™—Introduction to Offshore Operations
3.3 CEUs, 35 CPEs for Texas Accountants, 27 CEIs for Texas Landmen, and 2.75 MCLEs for Texas Lawyers
Provides the basics of offshore drilling operations. Explains the environment, logistics, equipment, procedures, safety requirements, emergency response, and regulations unique to petroleum exploration, drilling, and production activities offshore. Includes an overview of petroleum economics and investment decision-making specific to the offshore industry.

Course Content
• Geology and geophysics in offshore exploration
• Offshore lease acquisition
• Offshore drilling and production
• Well planning and business aspects
• Maritime and state law and offshore regulations
• Offshore storage and terminals
• Offshore catastrophes and emergency response
• Insurance for offshore operations
• Economics of offshore exploration and development

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

Included with Course
• Catered lunch daily; beverages and snacks provided
• Industry field trips
• Course materials including instructor presentations demonstrations
• Publication: A Primer of Offshore Operations, 3rd ed.

Recommended Book (discount when purchased during course): A Dictionary for the Oil and Gas Industry, 2nd ed.

Dates July 19–23, 2021
          October 18–22, 2021
Length 4.5 days
Cost $2,775

ENROLL ONLINE at petex.utexas.edu/courses or EMAIL: htc@petex.utexas.edu
REVISED
Production Technology
3.0 CEUs per week (6.0 CEUs total)
Learn the basics of surface and subsurface production equipment and operations during a two-week session. Each course may also be purchased and attended separately.

Course Content
1ST WEEK—SUBSURFACE
• Reservoir fundamentals and natural drive mechanisms
• Wellhead equipment
• Artificial lift mechanisms and enhanced recovery
• Offshore production considerations

2ND WEEK—SURFACE
• Production operations practices
• Separation
• Treating/measuring liquids and gas
• Produced water management and disposal
• Lease automation and emergency shutdown
• Oil and gas corrosion

Recommended For
Technicians, foremen, production operators, and workover personnel.

Included with Course
• Catered lunch daily; beverages and snacks provided
• Industry field trip
• Course materials including instructor presentations
• Recommended book: Oil and Gas: The Production Story, 2nd edition

Dates 1st week—June 14–17, 2021
2nd week—June 21–24, 2021
Length Subsurface: 4 days–3.0 CEUs
Surface: 4 days–3.0 CEUs
Cost $2,595 for the first week, or $2,595 for the second week

REVISED
Completion and Workover
3.0 CEUs total
Covers acceptable planning, techniques, and equipment for completion and stimulation of newly cased wells. Also covers planning, organizing, and supervising remedial and reoperation operations on old wells.

Course Content
• Planning the job
• Constructing the wellbore
• Perforating the casing
• Stimulating the formation
• Equipping the well for production
• Working with fluids
• Working with slickline, wireline, and coiled tubing
• Primary and secondary cementing
• Recovering pipe and fishing
• Controlling scale and paraffin
• Preventing accidents at the work site

Recommended For
Technicians and supervisory-level personnel involved in completion, production, or workover operations.

Included with Course
• Catered lunch daily; beverages and snacks provided
• Course materials including instructor presentations
• Recommended book: A Primer of Oilwell Service, Workover, and Completion, 1st edition

Dates August 16–19, 2021
Length 4 days
Cost $2,595

LNG: Basics of Liquefied Natural Gas
1.9 CEUs
Provides basic instruction about all facets of the liquefied natural gas (LNG) industry. Focuses on presenting a thorough understanding of LNG liquefaction and regasification facility operations from the process side and the reasons for the rapid expansion and evolution of the industry. Addresses three major building links of the LNG chain: liquefaction plant, transport ships, and receiving terminal.

Course Content
• Overview of the LNG industry
• Baseload liquefaction plant
• Receiving terminal
• LNG shipping industry
• LNG project development
• Major equipment and supporting functional units in LNG plants
• Safety, security, and environmental issues
• Offshore LNG
• LNG industry in China
• Special topics: non-conventional LNG and risk management

Recommended For
Managers new to the LNG industry; operating supervisors and engineers with suitable technical background; project managers.

Included with Course
• Catered lunch daily; beverages and snacks provided
• Course materials including instructor presentations
• Publication: LNG: Basics of Liquefied Natural Gas

Dates February 22–24, 2021 (Online)
December 6–8, 2021
Length 2.5 days
Cost $1,590

CALL FOR INSTRUCTORS
Share your industry knowledge by providing engaging classroom and hands-on instruction. What’s in it for you?
• A chance to actively support the industry
• Enhance the technical expertise of today’s industry professionals

We invite industry experts to submit resumes for our contract instructor positions to htc@petex.utexas.edu.

Field Trip Sponsors
PETEX would like to recognize the following companies and organizations for hosting field trips and on-site visits that enrich our instructor-led training programs.

Coastal Flow Liquid Measurement, Inc.
M&J Valve | SPX
Sealweld
Trillium Flow Technologies
INSTRUCTOR-LED COURSES

ValvePro® Certified Valve Maintenance Technician

2.3 CEUs

PETEX and Sealweld Corporation have expanded the most current valve maintenance training program to include emerging technologies and the latest developments in valve commissioning, troubleshooting, and emergency sealing. This program combines online, computer-based training with hands-on instruction at a location that’s convenient for you: your offices, our facilities, or a third-party site. We also offer access to our online learning materials through subscriptions to our e-library.

Popular courses that we can customize:

• Fundamentals of Petroleum Measurement (available in compressed and extended versions)
• Hydraulics for Pipeline Engineers
• Mass Measurement of Hydrocarbon Fluids
• Natural Gas Measurement—Fundamentals
• Petroleum Fundamentals (available in compressed and extended versions)
• Petroleum Measurement Tank Calibration Witness Seminar
• Pipeline Technology
• Production Technology (Surface and Subsurface)

For more information see petex.utexas.edu/courses/custom-courses. Or to schedule a design consultation, email info@petex.utexas.edu or give us a call at 800.687.4132.

PRODUCTION

Valves and Actuators—Operation and Maintenance

2.2 CEUs

For liquid pipeline operations and maintenance personnel, this course provides basic instruction for the most common valves and actuators used on pipelines. Participants visit manufacturing facilities to see firsthand how valves and actuators are made. Field trips teach assembly and disassembly of valves and actuators.

Course Content

• Introduction to petroleum valves
• Various types of valves
• Introduction to actuators
• Slab gate valve disassembly, assembly, and maintenance review

Recommended For
Pipeline maintenance technicians.

Included with Course

• Catered lunch daily; beverages and snacks provided
• Industry field trips
• Course materials including instructor presentations

Dates November 16–18, 2021
Length 3 days
Cost $1,590

ValvePro® Certified Valve Maintenance Technician, cont.

• Expanding gate valve maintenance review
• Valve maintenance

CUSTOM COURSES FOR ENTERPRISE CLIENTS

Tailor your workforce training to your company’s needs with PETEX custom courses. Our design and development team can work with you to define learning goals and align our course materials to your brand and unique training requirements.

You can choose from traditional or technology-enhanced learning options to build a training program that’s right for your enterprise, including instructor-led courses, e-learning modules, and videos. Our O&G experts can deliver instruction at a location that’s convenient for you: your offices, our facilities, or a third-party site. We also offer access to our online learning materials through subscriptions to our e-library.

Popular courses that we can customize:

• Fundamentals of Petroleum Measurement (available in compressed and extended versions)
• Hydraulics for Pipeline Engineers
• Mass Measurement of Hydrocarbon Fluids
• Natural Gas Measurement—Fundamentals
• Petroleum Fundamentals (available in compressed and extended versions)
• Petroleum Measurement Tank Calibration Witness Seminar
• Pipeline Technology
• Production Technology (Surface and Subsurface)

For more information see petex.utexas.edu/courses/custom-courses. Or to schedule a design consultation, email info@petex.utexas.edu or give us a call at 800.687.4132.
MEASUREMENT, CONTROL, AND STORAGE

Natural Gas Measurement—Fundamentals
2.4 CEUs
Covers the basics of physical and chemical makeup of gas mixtures and how measurements of density and volume are affected by temperature and pressure. Covers the fundamentals of flow measurement of natural gas and how to obtain data, analyze, and determine precise measurement. Covers the basics of natural gas meter station designs, applications of volume-determining meters including the flow-conditioning requirements for orifice meters, turbine meters, Coriolis, and ultrasonic meters. Presents the pros and cons of different types of natural gas meters installed in the field and their relative preference for the type of application. Provides hands-on practice in inspecting dual-chamber orifice meter runs. Covers the basics of automatic and manual sampling of natural gas for the determination of the chemical composition and Btu values. Describes how gas composition and fluid properties affect measurement; and also describes higher order real-time diagnostic capabilities for UFM and Coriolis meters. Ties all this information to optimize the NGM system for field application.

Course Content
- Units of measurement
- Natural gas chemistry
- Physical behavior
- Flow measurement principles and design/application/inspection
  - Flow measurement principles
  - Flow conditioning principles
  - Orifice meters (gas)—design/application/inspection
  - Orifice plate inspections—dual chamber and major orifice fittings
  - Orifice flow meter run inspection and maintenance

Natural Gas Measurement—Fundamentals, cont.
- Displacement meters (gas)—design/application/inspection
- Turbine meters (gas)—design/application/inspection
- Ultrasonic meters (gas)—design/application/inspection
- Coriolis meters (gas)—design/application/inspection
- Pulsation effects on accuracy of NGM measurement
- Meter station design/application/inspection
- Gas chromatographs: types and theory of operation, calibration, and analysis report
- Sampling and sample-handling basics: manual sampling for spot sample, automatic sampling for composite sample, and automatic sampling for flow weighted on-line analysis
- Safety while transporting sampling
- Odorant injection and detection systems; selection, operation, monitoring, testing, and maintenance issues
- H2S analyzers: description and comparison of the theory and operation of the various H2S measurement techniques

Recommended For
Gas measurement technicians, analysts, engineers, and personnel who witness or audit natural gas measurement.

Included with Course
- Catered lunch daily; beverages and snacks provided
- Course materials including instructor presentations
- Publication: Gas and Liquid Measurement

Dates
February 8–12, 2021 (Online)
August 24–26, 2021

Length
3 days

Cost
$1,885

NEW COURSE
Meter Assessment/Measurement Audit
0.4 CEUs
This virtual-led course helps students prepare for and survive a measurement audit.

Course Content
- Witnessing and inspection
- Natural gas orifice plate meters
- Natural gas cone meters
- Natural gas turbine meter
- Natural gas Coriolis meters
- Natural gas ultrasonic meters
- Natural gas sampling (manual and automatic)
- Natural gas chromatography
- Natural gas meter station design and installation review
- Natural gas documentation review

Recommended For
Measurement technicians, meter station operators, measurement supervisors, measurement engineers, measurement managers, measurement auditors, measurement witnesses, or any commercial sales and contract personnel (for information only).

Included with Course
- Course materials including instructor presentations (in secure PDFs)

Dates
May 18, 2021 (Online)
October 12, 2021 (Online)

Length
4 hours (9:00 am–1:00 pm CST)

Cost
$485

Lab Sponsors
We extend our sincerest gratitude to the following companies, which generously donate the equipment that students use during our measurement training programs. Thank you for helping us build a top-quality, hands-on laboratory.

- Azbil North America, Inc.
- Balon Valves (Balon Corporation)
- Brodie International
- Cameron Valves and Measurement
- Certified Calibrations, Inc.
- Corpus Christi Area Measurement Society
- Daniel Measurement and Control, Inc.
- Dynamic Flow Computers
- Emerson Process—Management
- Endress+Hauser
- Faure Herman (IDEX Corporation)
- FMC Technologies Inc.
- FMC Measurement Solutions Inc.
- GR Scientific Ltd.
- International School of Hydrocarbon Measurement
- Jiskoot Cameron Quality Systems
- Kam Controls Inc.
- Maloney Technical Products
- Meter Engineers Inc.
- Micro Motion™
- Micro Motion (Emerson Process—Management)
- NUFLO Cameron Measurement Systems
- Omni Flow Computers Inc.
- Shell Corporation
- Targa Resources
- WELKER
- WFMS Inc.
- W.L. Walker Company, Inc.
## MEASUREMENT, CONTROL, AND STORAGE

### Fundamentals of Petroleum Measurement (first of three levels)
**3.3 CEUs**
Provides fundamentals in manual tank gauging, principles of operation of the primary dynamic meters, and a base knowledge on meter proving, factor calculation, and meter/tank ticket calculations. Uses the API Manual of Petroleum Measurement Standards and the ASTM Test Methods as the basis for instruction.

**Course Content**
- Static measurement
  - Types of tanks
  - Lease tanks: level gauging, temperature determination, free water determination, and manual sampling
- Properties of petroleum
  - Density and gravity determination
  - S&W determination by centrifuge
  - Lease tank run ticket calculations
- Dynamic measurement
  - Overview of LACT/ACT installations
  - Introduction to automatic sampling: the flow metering theory; the operation of PD, turbine, Coriolis and ultrasonic meters; meter provers, meter proving, and prover calibration; and the calculations of meter factors and tickets
- Oil loss control
  - Introduction to basic principles

**Recommended For**
Personnel with a basic knowledge of the oil and gas business, especially pipeline, refining and production operations. Measurement operators, technicians, and engineers seeking a firm foundation or those new (6 months or less) to liquid volume measurement or who witness or audit measurement techniques.

**Included with Course**
- Catered lunch daily; beverages and snacks provided
- Course materials including instructor presentations
- Field exercises and demonstrations
- Publication: Primer of Oil and Gas Measurement

**Dates**
- January 25–29, 2021 and February 1–3, 2021 (Online) (9:00 am–1:00 pm CST)
- July 26–30, 2021 (Odessa)
- September 13–17, 2021 (Houston)
- November 8–12, 2021 (Odessa)

**Length**
4.5 days

**Cost**
$2,385

### Intermediate Petroleum Measurement (second of three levels)
**3.3 CEUs**
Builds on Fundamentals of Petroleum Measurement along with 1 to 3 years of field experience in measurement. Introduces some basic trouble-shooting techniques on both static tank measurement and dynamic measurement of quality and quantity of petroleum including refined products. Provides more information on the design and operation of various meter, prover, and automatic sampling system designs and the use of flow computers. Uses API MPMS and the ASTM Test Methods as basis for instruction.

**Course Content**
- Expands in more depth on topics in first level (Fundamentals)
- Properties of petroleum—Chemical Composition, test methods, and impact on petroleum measurement
- Static measurement—Tank calibration (ORLM and TSRLM methods); liquid level gauge and ullage (manual and automatic); cone and floating roof tanks; static sampling; calculation of tank measured quantities; and tank measurement error sources
- Dynamic measurement—Theory, selection, design, operations, performance, and application of different types of meters and provers and samplers; calculation of meter factors (multigrade) and measurement tickets; proving Coriolis in mass or volume mode; introduction to meter performance and control charts
- Oil loss analysis in two-region scenarios

**Recommended For**
Recommended for those seeking to enhance their operating knowledge of measurement performance; and those who witness or audit measurement techniques.

**Included with Course**
- Catered lunch daily; beverages and snacks provided
- Course materials including instructor presentations
- Field exercises and demonstrations
- Publication: Primer of Oil and Gas Measurement

**Dates**
- March 22–26, 2021 and March 29–31, 2021 (Online) (9:00 am–1:00 pm CST)
- September 20–24, 2021

**Length**
4.5 days

**Cost**
$2,385

### Advanced Petroleum Measurement (third of three levels)
**3.3 CEUs**
Builds on previous two courses and 2 to 5 years of field experience in measurement. Introduces additional trouble-shooting, problem-solving skills, and system performance analysis. Covers advanced techniques in loss control analysis, dynamic metering systems, and knowledge of various methods for calibrating both meter provers and above-ground storage tanks. Addresses needs for advanced EFMs and ATG systems. Uses API MPMS and the ASTM Test Methods.

**Course Content**
- Expands in more depth on each of the topics in Fundamentals, and Intermediate Petroleum Measurement
- Properties of petroleum—Physical properties, S&W analytical testing, crude oil assays, multiple analysis, and analytical quality tests for refined products
- Static Measurement—ATG by radar, servo gauge, hybrid system, HTG, and mass systems; tank calibration by MTSM, ORLM, OTM, EODR, TSRLM
- Dynamic measurement systems: troubleshooting, meter prover design and performance issues; calibration of meter provers, metering systems for marine terminals and load racks; automatic sampling systems, performance verification
- Oil loss analysis in three-region scenarios; use of control charts and other performance tools; system troubleshooting techniques
- Introduction to mass measurement

**Recommended For**
Personnel with 2 to 5 years of experience in pipeline, refining, and production measurement operations. Provides training for those participating in prover and sampling system calibrations and certifications. Recommended for those seeking to enhance knowledge of measurement performance and audit techniques.

**Included with Course**
- Catered lunch daily; beverages and snacks provided
- Course materials including instructor presentations
- Field exercises and demonstrations
- Publication: Primer of Oil and Gas Measurement

**Dates**
- June 14–18, 2021
- September 27–October 1, 2021

**Length**
4.5 days

**Cost**
$2,385
MEASUREMENT, CONTROL, AND STORAGE

Mass Measurement of Hydrocarbon Fluids (Direct and Inferred)
3.3 CEUs
Teaches theory, installation, operation, and proving practices of mass measurement of light hydrocarbon fluids including natural gas liquids and other liquids. Provides instruction in meter proving and calculation of meter factors for meters in high vapor pressure service (e.g., propane or mixed NGLs). Provides instruction and simulation/demonstration of densitometer proving by pycnometer and pycnometer calibration. Demonstrates proper procedures and emphasizes safe practices; and provides instruction in the calculation of volumes at base conditions of single-grade light hydrocarbons from measured NGL mixes. Emphasis placed upon proper procedures and safe practices.

Course Content
• Fundamentals of measurement
• Static and dynamic measurement
• Proving a flow meter in high vapor pressure liquids
• Proving a density meter in high vapor pressure liquids
• Flowmeter prover calibration by water-draw or gravimetric methods
• Pycnometer calibration by the water weigh method
• Mass measurement by turbine meter and densitometer or by Coriolis flow meter
• Sampling and sample analysis
• Calculations for volume at base conditions from mass quantities and analysis of composite sample

Recommended For
Measurement technicians and engineers with 1 to 5 years of experience; and those who witness or audit measurement.

Included with Course
• Catered lunch daily; beverages and snacks provided
• Course materials including instructor presentations
• Field and classroom exercises

Dates  October 25–29, 2021
Length  4.5 days
Cost  $2,385

NEW COURSE

Tank Calibration Witness
0.8 CEUs
This virtual course helps students learn what to watch for and how to be an effective witness to a tank calibration.

Course Content
• Introduction to manual tank strapping
• Optical reference line
• Optical triangulation
• Electro-optical distance ranging
• Total station reference line
• Physical bottom surveys
• Deadwood measurements
• Reference measurements
• Capacity tables
• Tank calibration frequency

Recommended For
Engineer technicians, supervisors, tank farm operators and managers. As well as anyone involved with petroleum measurement by upright cylindrical above ground storage tanks.

Included with Course
Course materials including instructor presentations (in secure PDFs)

Dates  June 29–30, 2021 (Online) (9:00 am–1:00 pm CST)
        August 3–4, 2021 (Online) (9:00 am–1:00 pm CST)

Length  8 hours
Cost  $785

REFINING

Material Loss Control in Refineries and Petrochemical Plants
1.6 CEUs
Covers the significant cash flow loss that comes from improper measurements or theft of materials from most refineries and petrochemical plants. Teaches learners to identify the common sources of losses and how to detect both erroneous measurement and intentional diversion.

Participants must have access to a laptop or tablet capable of running Excel or an equivalent spreadsheet app with the ability to do advanced math functions. There will be exercises and group projects included during the course.

Course Content
• Loss control and its financial and operational implications
• Accounting for the oil—balance pros & cons
• Sources of loss and risk assessment
• Measurement and instrument biases and recurring loss
• Theft opportunities and practices
• Methods for detecting losses and narrowing the areas of concern
• Oil loss reduction investigations

Recommended For
Engineers involved with measurement or loss control; internal auditors and investigators covering material control; and electrical and civil engineers working on pipelines. (Participants must be able to perform engineering-level computations.)

Included with Course
Course materials including instructor presentations (in secure PDFs)

Dates  January 11–14, 2021 (Online) (9:00 am–1:00 pm CST)
        May 2–6, 2021 (Online) (9:00 am–1:00 pm CST)

Length  16 hours
Cost  $1,595

The University of Texas at Austin
Engineering Executive Education
Cockrell School of Engineering

Professional Development Programs
Results-based short courses, conferences, and custom courses that drive innovation and advance STEM careers. Visit uteng.org for more information.
Pipeline Technology
9 CEUs
Covers pipeline design, construction, operations, maintenance, and management. May be taken in one-week modules.

Course Content
1ST WEEK—PIPELINE DESIGN
4 days—3 CEUs
• Pipeline regulations
• Pipeline rights-of-way and contracts
• Electric prime movers and pipeline hydraulics
• Analysis and control of surges
• Mainline and station design and construction
• Selection of pipeline pumps

2ND WEEK—OPERATIONS
4 days–3 CEUs
• Product terminals and supervisory control systems
• Meters and measurement
• Power optimization
• Economics of pipeline transportation
• Mainline tanks and materials of construction

3RD WEEK—MAINTENANCE
4 days–3 CEUs
• Line maintenance
• Corrosion
• Maintenance equipment
• Leak detection
• Valve maintenance
• Welding
• Emergency response

Recommended For
Engineers new to the pipeline industry or those in special areas seeking a broader view of pipeline operations. Also serves as a refresher course for pipeline engineers.

Included with Course
• Course materials including instructor presentations
• Use of scientific calculator and measurement tools

Recommended Book: A Dictionary for the Oil and Gas Industry, 2nd ed.

Dates 1st week—April 19–22, 2021 and
April 26–29, 2021 (Online)
(9:00 am–1:00 pm CST)
September 13–16, 2021
2nd week—September 20–23, 2021
3rd week—September 27–30, 2021

Length 1st week—4 days–3 CEUs
2nd week—4 days–3 CEUs
3rd week—4 days–3 CEUs

Cost $2,385 for the first week
$2,385 for the second week
$2,385 for the third week

NEW COURSE
Pipeline Risk
0.8 CEUs
Provides an overview of pipeline threats and consequences as well as the applicability of the different pipeline risk model types (Quantitative and Qualitative) to various risk management decisions. Also, this course will cover the essential elements and key concepts (inputs, outputs, and algorithms) of modern risk assessment.

Course Content
• Pipeline risk definition
• Integrity management program
• Risk assessment
• Integrity assessment
• Pipeline Threats and consequences
• Integrity management plan
• Performance plan
• Quality control plan
• Response to integrity assessment and mitigation

Recommended For
Professional individuals at all levels in both privat and government sectors. Pipeline risk model is a fundamental part of the assessment of operational pipeline risk. Therefore, risk assessment must be understood by all levels to make risk-informed decisions, prioritize pipeline segments, determine the most effective mitigation measures for the identified threats, and effective resource allocation.

Included with Course
• Course materials including instructor presentations

Dates March 9–10, 2021 (Online)
(9:00 am–1:00 pm CST)
November 2–3, 2021 (Online)
(9:00 am–1:00 pm CST)

Length 8 hours
Cost $985

Hydraulics for Pipeline Engineers
3.0 CEUs
Covers basic pipeline hydraulics for engineers and design problems to include calculations for hydraulic gradients, pipe selection, telescoping, grade tapering, injection, and stripping. Discusses equipment and methods of surge control.

Participants should plan on bringing a laptop or tablet capable of running Excel or an equivalent spreadsheet app with the ability to do advanced math functions.

Course Content
• Introduction to pipeline hydraulics
• Fluid characteristics and pipeline design codes
• Basic hydraulics equations and friction loss equations
• Energy and surge considerations and system control
• Hydraulic gradient
• Pipe selection and pumps
• Pipeline economics

Recommended For
Engineers new to the pipeline industry or those seeking practical knowledge. Also for electrical and civil engineers working on pipelines. Participants must be able to perform engineering-level computations.

Included with Course
• Catered lunch daily; beverages and snacks provided
• Course materials including instructor presentations
• Use of scientific calculator and measurement tools
• Publications: Cameron Hydraulic Data and Crane Technical Paper 410

Dates August 9–12, 2021
December 6–9, 2021

Length 4 days
Cost $2,275

First Aid/CPR/AED Safety Training
Learn how to provide immediate care in case of an emergency until help arrives.
Visit healthsafetytraining.utexas.edu for more information.

The University of Texas at Austin
Health and Safety Training Center
## 2021 COURSE SCHEDULE

Some classes are held virtually so check location below. Training dates and prices are subject to change.

<table>
<thead>
<tr>
<th>Course</th>
<th>Professional Credits</th>
<th>Length</th>
<th>2021</th>
<th>Location</th>
<th>Tuition</th>
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<td>February 22–26 March 1–3</td>
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<td>LNG: Basics of Liquefied Natural Gas, pg. 13</td>
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</table>
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<td>4 days</td>
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<td>LNG: Basics of Liquefied Natural Gas, pg. 13</td>
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<td>$2,275</td>
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E-COURSE
Petroleum Fundamentals
3.5 CEUs
Contains much of the same content provided in the popular classroom course and book, *Fundamentals of Petroleum*, 5th ed. in a complete e-learning course delivered to your computer. This course offers 32 multimedia training modules that teach the full spectrum.

Course includes these individual e-modules:
- Introduction to Petroleum
- Petroleum Geology
- Petroleum Exploration
- Formation Evaluation
- Types of Wells
- Offshore Oil and Gas Leasing
- Onshore Oil and Gas Leasing
- Well Planning
- Overview of Drilling Systems
- Interactive Offshore Rig
- Interactive Onshore Rig
- The Power System
- The Hoisting System
- The Rotating System
- The Circulating System
- Blowout Prevention System
- Rotary Drilling Rig Types
- People and Companies
- Routine Drilling Operations
- Controlled Directional Drilling
- Open-Hole Fishing
- Well Control
- Reservoir Drive Mechanisms
- Well Completion
- Artificial Lift
- Well Stimulation
- Improved Recovery Techniques
- Surface Handling of Well Fluids
- Well Service and Workover
- Transporting Petroleum, Derivatives, and Natural Gas
- Refining and Processing Petroleum

Certificate program: 35+ hours

Cat. no. 97.C0110  $995

---

E-LEARNING MODULE
Petroleum Economics
Understand the economics of creating new hydrocarbon supplies and the business models of upstream, midstream, and downstream business units; as well as how revenue trends and variables that contribute to world crude oil prices and demand. Certificate of completion is awarded upon passing assessment. 30 to 45 minutes.

Cat. no. 96.M0810  $65

E-LEARNING MODULE
Types of Wells
Learn about various types of wells: exploratory, wildcat, appraisal, development, and production wells. Certificate of completion is awarded upon passing assessment. 30 to 45 minutes.

Cat. no. 92.M1510  $65

---

E-LEARNING MODULE
Onshore Oil and Gas Leasing
Understand types of ownership of land, minerals, and associated rights. Learn common leasing terminology, lease terms and provisions, operating agreements, and more. Certificate of completion is awarded upon passing assessment. 45 to 60 minutes.

Cat. no. 96.M0510  $65

---

E-LEARNING MODULE
People and Companies
Learn about the types of companies involved in the drilling process and their roles. Learn about the roles of the various onshore and offshore rig personnel and how they all work together for successful drilling operations. Certificate of completion is awarded upon passing assessment. 45 to 60 minutes.

Cat. no. 96.M0710  $65

---

E-LEARNING MODULE
Introduction to Petroleum
Learn the basics of where petroleum comes from, the history of drilling and transporting oil, and how crude oil is transformed into valuable products. Covers the petroleum industry sectors and the major forces driving the oil market. Certificate of completion is awarded upon passing assessment. 75 to 90 minutes.

Cat. no. 96.M0110  $95

---

E-LEARNING MODULE
Offshore Oil and Gas Leasing
Learn how the U.S. federal and state governments regulate offshore rights and how leases in the Gulf of Mexico planning areas are managed; as well as the common forms of cooperation agreements, the bidding process, and more. Certificate of completion is awarded upon passing assessment. 45 to 60 minutes.

Cat. no. 96.M0610  $65

---

E-LEARNING MODULE
Well Planning
Understand the importance of well planning and the well plan, its purpose, and the steps and people involved in the well program. Certificate of completion is awarded upon passing assessment. 30 to 45 minutes.

Cat. no. 96.M0410  $50

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PETEX e-books make reading easy on your personal computer or tablet.
E-LEARNING MODULE
Formation Evaluation
Learn about formation evaluation and techniques, the advantages and disadvantages of each, and mud logging, wireline logging, coring, drill stem testing, and MWD and LWD. Certificate of completion is awarded upon passing assessment. 90 to 105 minutes.
Cat. no. 92.M1410 $100

E-LEARNING MODULE
Petroleum Exploration
Covers the methods of geologic data collection and the tools and tests used. Learn about the application of geologic maps and cross sections and how seismic exploration works, and how data is interpreted. Certificate of completion is awarded upon passing assessment. 45 to 60 minutes.
Cat. no. 96.M0310 $65

E-LEARNING MODULE
Petroleum Geology
Learn what petroleum and hydrocarbons are and how they are formed, explored, and produced; as well as properties of rocks that serve as oil and gas reservoirs, pressure variables, crude oil composition, measurement, and more. Certificate of completion is awarded upon passing assessment. 90 to 120 minutes.
Cat. no. 96.M0210 $115

E-COURSE
Elementary Drilling
2.0 CEUs
Composed of 15 interactive multimedia training modules to help you understand the fundamentals of rotary drilling practices and rig components.
Course includes these individual e-modules:
- Introduction to Petroleum
- Well Planning
- Interactive Offshore Rig
- Interactive Onshore Rig
- Power System
- Hoisting System
- Rotating System
- Circulating System
- Blowout Prevention System
- Rotary Drilling Rig Types
- People and Companies
- Routine Drilling Operations
- Controlled Directional Drilling
- Open-Hole Fishing
- Well Control
Certificate program: 16 to 20 hours
Cat. no. 92.C0110 $595

E-COURSE
Introduction to Petroleum and Drilling Systems Overview
0.2 CEUs
Helps you understand where petroleum comes from, the history of drilling and transporting oil, and how crude oil is transformed into valuable products. Learn about the major petroleum industry sectors and the major forces driving the oil market. Covers the key systems involved in drilling: hoisting, rotating, circulating, power systems, as well as blowout prevention.
Course includes these individual e-modules:
- Introduction to Petroleum
- Overview of Drilling Systems
Certificate program: 90 to 135 minutes
Cat. no. 97.C0310 $135

E-COURSE
Oilwell Drilling Primer
2.5 CEUs
The content of the best-selling book, A Primer of Oilwell Drilling, 7th ed., has been transformed into interactive e-learning that lets you experience a drill rig up-close on your computer screen for detailed study. Special features and quizzes test learning.
Course includes these individual e-modules:
- Introduction to Petroleum
- Petroleum Geology
- Petroleum Exploration
- Types of Wells
- Rotary Drilling Rig Types
- People andCompanies
- Interactive Onshore Rig
- Interactive Offshore Rig
- Overview of Drilling Systems
- Power System
- Hoisting System
- Rotating System
- Circulating System
- Blowout Prevention System
- Routine Drilling Operations
- Formation Evaluation
- Well Completion
- Well Stimulation
- Controlled Directional Drilling
- Open-Hole Fishing
- Well Control
Certificate program: 25 hours
Cat. no. 92.C0310 $695

Interactive Offshore Oil Rig
Explore the inner workings of an offshore rig.
See full description on page 25.


**E-LEARNING MODULE**

**Controlled Directional Drilling**

Understand the types of directional drilling and the special considerations and challenges; as well as the complex types of equipment used. Certificate of completion is awarded upon passing assessment. **45 to 60 minutes.**

Cat. no. 92.M0910 $65

---

**Open-Hole Fishing**

Understand the different ways that pipe and equipment get stuck in a hole and the various techniques and tools used, plus a video. Certificate of completion is awarded upon passing assessment. **60 to 75 minutes.**

Cat. no. 92.M310 $95

---

**Overview of Drilling Systems**

Covers rotary drilling and the key systems: hoisting, rotating, circulating, power, and blowout prevention. Certificate of completion is awarded upon passing assessment. **45 to 60 minutes.**

Cat. no. 92.M0110 $50

---

**Rotary Drilling Rig Types**

Covers land and offshore rigs and platforms and why certain types are selected; also about MODUs, marine risers, and heave compensators. Certificate of completion is awarded upon passing assessment. **60 to 75 minutes.**

Cat. no. 92.M1110 $95

---

**Routine Drilling Operations**

Understand the routine steps used in most drilling operations, including starting a new well, casing, cementing, and tripping in and out. Certificate of completion is awarded upon passing assessment. **75 to 90 minutes.**

Cat. no. 92.M0810 $95

---

**Rig Components**

**E-LEARNING MODULE**

**Interactive Onshore Rig**

Helps you understand the inner workings of a typical land rig. See and hear about what each component does and where it is located. Zoom in for close-up views. **Note: This program does not grant a Certificate of Completion. 30 to 45 minutes**

Cat. no. 92.T0110 $50

---

**Interactive Offshore Rig**

Learn about the inner workings of a semi-submersible rig. See and hear about the sections of the rig, its mechanical components, where each is located, and zoom in for close-up views. Interactive training such as this is especially useful for oil and gas industry personnel seeking understanding of the parts of this key component of drilling offshore. Certificate of completion is awarded upon passing assessment. **60 to 75 minutes.**

Cat. no. 92.T0210 $65

---

**The Circulating System**

Learn all about the circulating system, including its components, processes for liquid and air/gas drilling fluids, and the role of drilling fluid in the drilling process. Certificate of completion is awarded upon passing assessment. **150 to 180 minutes.**

Cat. no. 92.M0510 $165

---

**The Hoisting System**

Understand how the drill string is raised and lowered and detailed function of the drawworks, blocks, drilling line, mast, substructure, and more. Certificate of completion is awarded upon passing assessment. **60 to 90 minutes.**

Cat. no. 92.M0310 $95

---

**The Power System**

Learn about the power distribution systems on mechanical rigs, direct current (DC) electric rigs, silicone-controlled rectification (SCR) rigs, and variable frequency drive (VFD) system rigs; covers how each component works and its advantages/disadvantages. Certificate of completion is awarded upon passing assessment. **45 to 60 minutes.**

Cat. no. 92.M0210 $75

---

**The Rotating System**

Understand the system that rotates the bit and the components of the rotary table system; covers the top drive, the downhole motor, drill string, and use and selection of bits. Certificate of completion is awarded upon passing assessment. **90 to 120 minutes**

Cat. no. 92.M0410 $135

---

**Controlled Directional Drilling**

Understand the types of directional drilling and the special considerations and challenges; as well as the complex types of equipment used. Certificate of completion is awarded upon passing assessment. **45 to 60 minutes.**

Cat. no. 92.M0910 $65

---

**Open-Hole Fishing**

Understand the different ways that pipe and equipment get stuck in a hole and the various techniques and tools used, plus a video. Certificate of completion is awarded upon passing assessment. **60 to 75 minutes.**

Cat. no. 92.M310 $95

---

**Overview of Drilling Systems**

Covers rotary drilling and the key systems: hoisting, rotating, circulating, power, and blowout prevention. Certificate of completion is awarded upon passing assessment. **45 to 60 minutes.**

Cat. no. 92.M0110 $50

---

**Rotary Drilling Rig Types**

Covers land and offshore rigs and platforms and why certain types are selected; also about MODUs, marine risers, and heave compensators. Certificate of completion is awarded upon passing assessment. **60 to 75 minutes.**

Cat. no. 92.M1110 $95

---

**Routine Drilling Operations**

Understand the routine steps used in most drilling operations, including starting a new well, casing, cementing, and tripping in and out. Certificate of completion is awarded upon passing assessment. **75 to 90 minutes.**

Cat. no. 92.M0810 $95

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**The Hoisting System**

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Cat. no. 92.M0410 $135

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WELL CONTROL

E-LEARNING MODULE

Blowout Prevention System
Learn how well blowouts occur, the causes and signs of blowouts, blowout prevention, BOP system components, the kick circulating system, and special equipment used offshore. Certificate of completion is awarded upon passing assessment. 60 to 90 minutes.
Cat. no. 92.M0710 $95

E-LEARNING MODULE

Well Control
Learn how to control a kick and prevent a well from blowing out; covers the formation pressures and the well control and operations and methods. Certificate of completion is awarded upon passing assessment.
Prerequisite: Recommended to complete Blowout Prevention System module for better understanding. 45 to 60 minutes.
Cat. no. 96.M1210 $65

E-COURSE

Production Basics
0.8 CEUs
Eight interactive multimedia training modules that teach the basics of oil production practices including reservoir drive mechanisms, well completion operations, artificial lift methods, well stimulation, well service and workover operations, and improved recovery techniques. Learn about the origins of petroleum, the history of drilling and how crude oil is transformed into valuable products.
Course includes these individual e-modules:
• Introduction to Petroleum
• Reservoir Drive Mechanism
• Well Completion
• Artificial Lift
• Well Stimulation
• Improved Recovery Techniques
• Surface Handling of Well Fluids
• Well Service and Workover
Certificate program: 8 to 10 hours
Cat. no. 93.C0110 $395

E-LEARNING MODULE

Improved Recovery Techniques
Understand the techniques used to recover hydrocarbons from wells with substantial oil left in the reservoir after production; covers the various methods used to improve the well. 60 to 90 minutes.
Cat. no. 93.M0610 $95

E-LEARNING MODULE

Reservoir Drive Mechanisms
Learn more about the natural pressures that cause reservoir fluids to flow into the bottom of the wellbore. 30 to 45 minutes
Cat. no. 93.M0910 $50

E-LEARNING MODULE

Surface Handling of Well Fluids
Understand the steps necessary to prepare oil or gas for sale at the surface in terms of handling processes and equipment; learn how crude oil is prepared, stored, sampled, measured, and tested. 60 to 75 minutes.
Cat. no. 93.M0710 $65

Artificial Lift

E-LEARNING MODULE

Artificial Lift
Learn when artificial lift is necessary and the various lift methods such as beam pumping, subsurface hydraulic pumping, electric submersible pumping, and more. 75 to 90 minutes.
Cat. no. 93.M0310 $95

PRODUCTION

Fundamentals of Petroleum is available in print or e-book and as a certificate program (page 36). Petroleum Fundamentals is an instructor-led course that provides learners with a certificate of completion (page 12).
**E-LEARNING MODULE**

**Well Completion**
Learn about the basic steps of well completion and design and the equipment and mechanisms used; learn about perforating options, considerations for lower completions, and special completions including horizontal wells, extended-reach drilling, and multiple completions. Certificate of completion is awarded upon passing assessment. **60 to 75 minutes.**
Cat. no. 93.M0110 $65

**E-LEARNING MODULE**

**Well Service and Workover**
Covers the types of well service equipment and common types of problems such as equipment failure, depleted reservoirs, excessive water and gas production, and poor production rates along with potential solutions. Certificate of completion is awarded upon passing assessment. **75 to 90 minutes.**
Cat. no. 93.M0810 $95

**E-LEARNING MODULE**

**Well Stimulation**
Understand well stimulation and some commonly used techniques such as matrix acidizing and hydraulic fracturing; covers the factors affecting well production, why stimulation is needed and types of hydraulic fracturing equipment. Certificate of completion is awarded upon passing assessment. **45 to 60 minutes.**
Cat. no. 93.M0510 $65

**E-LEARNING MODULE**

**Refining and Processing Petroleum**
Learn how crude oil is converted into valuable products such as fuel, lubricating oil, and petrochemicals. Learn about the make up and standard types of crude oil, types of hydrocarbons, types of refineries and processes, economic issues and environmental concerns. Certificate of completion is awarded upon passing assessment. **75 to 90 minutes.**
Cat. no. 95.M0110 $95

**E-LEARNING MODULE**

**Transporting Petroleum, Petroleum Derivatives, and Natural Gas**
Understand how petroleum, petroleum products, and natural gas are transported to refining and processing plants and to the consumer; covers the distribution chain, pipelines, and modes of transportation. Certificate of completion is awarded upon passing assessment. **60 to 75 minutes.**
Cat. no. 94.M0110 $65

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Profile: The Petroleum Industry
From the vast reaches of West Texas and offshore Louisiana to the bustling metropolises of Los Angeles and Houston, viewers learn about the fascinating people, processes, and equipment that are required to find, drill for, produce, transport, and refine oil and gas. 1981, 30 minutes.

Cat. no. 65.0121: DVD $75
Streaming $50

Makin’ Hole: How Oilwells Are Drilled
Ever wondered how a drilling rig drills a well? If so, this program is for you. In easy-to-understand language and pictures, it explains the basics of seismic exploration, site preparation, and rigging up. The camera then visits a land rig and follows a crew through the process of drilling a well, including making a connection, tripping in and out, and routine drilling operations. Covers both land and offshore drilling operations. 1999, 23 minutes.

Cat. no. 65.0120: DVD $149
Streaming $99

Makin’ Hole Certificate Program
0.1 CEUs
This self-study training package includes an online assessment* (with 25 questions) and a copy of the video, Makin’ Hole: How Oilwells are Drilled. Earn a Certificate of Completion from the University of Texas at Austin—PETEX when you successfully finish this program. Est. time commitment: 23 minutes + test time.

Cat. no. 65.0120AV DVD + Assessment $199
Streaming + Assessment $149

BEST SELLER
So You Want to Be a Roughneck? (¿Así que quiere trabajar en pozos petrolíferos?)
Familiarizes entry-level rig floor personnel with what drilling is all about. Contains three sections: rig equipment, personnel, and personal protective equipment. Explains that a considerable amount of hardware is needed to drill a hole in the earth, covers who’s who on the rig and what they do, and points out that floorhands must follow safe work procedures and wear proper protective equipment. 2002, 40 minutes.

Also available in Spanish as ¿Así que quiere trabajar en pozos petrolíferos?

English: cat. no. 65.6070: DVD $149
Streaming $99
Spanish: cat. no. 65.6071: DVD $149
Streaming $99

Roughneck Training, Complete Set
Assists rotary helpers in learning about proper care and handling of the drill stem. Includes a workbook. Sponsored by the International Association of Drilling Contractors (IADC). 1983.

Parts I–V
Cat. no. 65.0519: DVD $293
Streaming $195

Part I: Care and Use of Tongs
Describes the two main types of tongs and points out proper use and maintenance. 12 minutes, workbook.

Cat. no. 65.0520: DVD $68
Streaming $45

Part II: Laying Down Pipe
Shows how drill pipe and drill collars should be laid down, inspected, and prepared for transport to the next location. 11 minutes, workbook.

Cat. no. 65.0521: DVD $68
Streaming $45

Part III: Making a Trip
Points out factors rotary helpers should consider to make a round trip in a proper and safe manner. 18 minutes, workbook.

Cat. no. 65.0522: DVD $68
Streaming $45

Part IV: Making a Connection
Identifies points that the drilling crew should be aware of when adding a mouse-hole joint to the drill string, including inspection, preparation, and procedures. 12 minutes, workbook.

Cat. no. 65.0523: DVD $68
Streaming $45
Part V: Care and Handling of Rotary Slips

Slips are simple, rugged devices but must be properly used and maintained. Shows floorhands how to properly care for and handle drill pipe and drill collar slips. Safety clamps are also covered. 1999, 25 minutes, workbook.

Cat. no. 65.0524: DVD $68
Streaming $45

Casing and Cementing

Cement and Cement Additives

Covers the basic characteristics and uses of cement and the additives used to tailor it to the varied conditions encountered downhole. Builds a better understanding of how important cement is to successful drilling. Produced in cooperation with Halliburton. 1981, 21 minutes, 135 slides, workbook.

Slide-tape transfer on video
Cat. no. 65.1125: DVD $53
Streaming $35

Handling and Running Casing

Shows the procedures drilling and casing crews should follow to safely and properly handle and run casing into the hole. Includes unloading and stacking procedures, tallowing, picking up, tonging, and lowering into the wellbore. Also points out the importance of frequent mud fill-up. Produced in cooperation with Transocean. 2000, 16 minutes.

Cat. no. 65.6010: DVD $113
Streaming $75

Liner Cementing

Defines liners, tells why they are used, describes tools needed to set them, and discusses problems encountered and how to overcome or minimize them. Produced in cooperation with Halliburton. 1980, 30 minutes, 132 slides, workbook.

Slide-tape transfer on video
Cat. no. 65.1124: DVD $45
Streaming $30

Drilling Fluids

The Pit Watcher

This program explains why it is so important for rig personnel to pay close attention to the drilling mud system. It also covers the role each piece of equipment in the mud-handling system plays and tells why it is vital for rig crewmembers to closely monitor the mud. Produced in cooperation with Transocean. 2001, 22 minutes.

Cat. no. 65.6030: DVD $98
Streaming $65

DRILLING

Drill Stem and Bits

No Fishing This Year: Care and Handling of Drill Pipe, Drill Collars, and Tool Joints

Demonstrates what the rig crew can do to increase the life of the drill stem, starting with unloading the pipe at the rig, running it into and out of the hole, and finally laying it down. 1980, 25 minutes.

Cat. no. 65.0107: DVD $75
Streaming $50

Rig Components

Care and Maintenance of Blocks, Top Drives, and Rotaries

Shows rig crewmembers how to safely and properly maintain the blocks, top drive, and rotary table on their rig. This program stresses the importance of safe working practices while a person is suspended above the rig floor or greasing the crown block. It also points out that although many rigs feature top drives, crewmembers must still properly maintain the rotary table. Produced in cooperation with Transocean. 2001, 16 minutes.

Cat. no. 65.6060: DVD $98
Streaming $65

Diesel Prime Movers

Covers fuel, exhaust, cooling, and lubrication systems of four- and two-stroke-cycle diesel engines for motorhands and also gives basic start-up, maintenance, and troubleshooting procedures. 1984, 25 minutes, 140 slides, workbook.

Slide-tape transfer on video
Cat. no. 65.1092: DVD $45
Streaming $30

The Drawworks

The big hoist that raises and lowers tons of drill pipe and other tools out of and into the hole is a vital piece of equipment in the hoisting system. This program explains that while the drawworks is a large, rugged, and dependable device, the rig crew must properly maintain it to provide reliable day-in-and-day-out service. Besides covering conventional DC drawworks, this audiovisual also shows the latest AC drawworks. Produced in cooperation with Transocean. 2001, 23 minutes.

Cat. no. 65.6040: DVD $98
Streaming $65

Safety

Hand Injuries in Drilling

This program presents a graphic view of the dangers to the hands on a drilling rig. Shows rig personnel how to protect hands from injuries. Produced in cooperation with the International Association of Drilling Contractors (IADC). 1979, 17 minutes, 56 slides.

English slide-tape transfer on video
Cat. no. 65.1145: DVD $68
Streaming $45

Manos lesionadas durante operaciones de perforación

Spanish slide-tape transfer on video
Cat. no. 65.3900: DVD $30
Streaming $20

Hearing Conservation: A Sense of Importance

Stresses how important it is for rig personnel to make every effort to protect their hearing. Produced in cooperation with the International Association of Drilling Contractors (IADC). 1985, 11 minutes, 91 slides, nonillustrated script.

Slide-tape transfer on video
Cat. no. 65.1119: DVD $45
Streaming $30

Use and Care of Basic Tools

Gives a general introduction to the types of hand tools used on rigs and leases and tells how to use and care for them correctly. While a new hire will find this program particularly useful, even experienced individuals will benefit from the pointers given. 1973, 26 minutes, 129 slides, workbook.

English slide-tape transfer on video
Cat. no. 65.1367: DVD $45
Streaming $30

El uso y mantenimiento de herramientas básicas

Spanish slide-tape transfer on video
Cat. no. 65.3622: DVD $30
Streaming $20

The Rig School™—Introduction to Offshore Operations

Enroll today to learn about offshore rig operations. Learn from industry experts, enjoy field trips, and network with other professionals. See page 12.
**OFFSHORE**

Handling and Running Buoyant Riser
Covers the procedures yard, boat, and rig crews should follow to properly install, inspect, handle, transport, and run buoyant riser modules attached to riser joints. Intended for all personnel involved in handling and running buoyant risers. Produced in cooperation with Transocean. 2000, 27 minutes.
Cat. no. 65.6020: DVD $113
Streaming $75

Moving Your Rig
Explains the procedures and steps required to move an offshore mobile drilling unit and stresses the need for planning and attention to details. Covers moving a semisubmersible using the permanent chain-chaser (PCC) method of anchoring, moving a jack-up, moving a swamp barge, and moving a drilling tender. Also covers the procedures for a dry tow. Safety is emphasized throughout the program. Produced in cooperation with Transocean. 2001, 36 minutes.
Cat. no. 65.6050: DVD $113
Streaming $75

**WELL CONTROL**

Introduction to Well Control
*Based on IADC accreditation requirements*
This presentation introduces roughnecks and other personnel to the basics of well control. Based on the introductory level of IADC’s WellCAP accreditation program. Covers drilling fluid basics, pressure fundamentals, causes of kicks, kick detection, well-control procedures, gas characteristics, well-control methods, and equipment. It assists personnel in learning well-control fundamentals and helps prepare them for performing their duties during well-control situations on the rig. The presentation is divided into four parts, allowing viewers to answer questions in a workbook. The questions help viewers determine whether they understand the main points of the instruction. 2003, 75 minutes.
Cat. no. 65.6080: DVD $188
Streaming $125

**PRODUCTION**

Artificial Lift
Gas Lift, Complete Set

Parts I–V
Cat. no. 65.0122: DVD $293
Streaming $195

Part I: Well Model and Lift
11 minutes
Cat. no. 65.0123: DVD $68
Streaming $45

Part II: The Well—Flowing, Dead, and Unloading
13 minutes
Cat. no. 65.0124: DVD $68
Streaming $45

Part III: The Effect of Gas Rates and Depth of Injection on Well Performance
12 minutes
Cat. no. 65.0125: DVD $68
Streaming $45

Part IV: The Effect of Surface Conditions on Gas-Lift Performance
19 minutes
Cat. no. 65.0126: DVD $68
Streaming $45

Part V: Valve Spacing and Pressuring
19 minutes
Cat. no. 65.0127: DVD $68
Streaming $45

Wireline Operations with Gas-Lift Valves
Shows the tools and methods needed to pull and run gas-lift valves properly by means of a wireline unit. Produced in cooperation with the API Audiovisual Committee. 1986, 17 minutes, 75 slides, workbook. Slide-tape transfer on video
Cat. no. 65.2903: DVD $68
Streaming $45

*Interactive Offshore Oil Rig
Exclusively from PETEX. See page 25.*
**PRODUCTION**

Field Gas Processing

Glycol Dehydrators, Complete Set
Slide-tape transfer on video
Cat. no. 65.1170: DVD $360
Streaming $240

1. Principles of Operation
Explains the basic principles and the flow pattern of a typical glycol installation. Part of the PETEX-API Audiovisual Repository. 1990, 28 minutes, 132 slides, instructor guide, student guide, glossary.
Slide-tape transfer on video
Cat. no. 65.1171: DVD $98
Streaming $65

2. Operating Conditions and Limits
Discusses temperature, pressure, liquid level, and flow rate and tells how each affects the operation of equipment in a glycol dehydration system. Part of the PETEX-API Audiovisual Repository. 1991, 23 minutes, 129 slides, instructor guide, student guide, glossary.
Slide-tape transfer on video
Cat. no. 65.1172: DVD $98
Streaming $65

3. Unit Start-Up and Shutdown
Slide-tape transfer on video
Cat. no. 65.1173: DVD $98
Streaming $65

4. Maintenance, Care, and Troubleshooting
A glycol dehydration unit requires maintenance and care if it is going to operate properly, as does the glycol itself. It can save money if field personnel know basic troubleshooting procedures. Part of the PETEX-API Audiovisual Repository. 1991, 20 minutes, 104 slides, instructor guide, student guide, glossary.
Slide-tape transfer on video
Cat. no. 65.1174: DVD $98
Streaming $65

Safety

Hand Injuries in Well Service and Workover Operations, see page 34

**MEASUREMENT, CONTROL, AND STORAGE**

Automatic Sampling of Petroleum and Petroleum Products
Explains the need for adequate mixing and sample-rate frequency to obtain a representative sample and shows the components and their functions in automatic sampling systems. Material conforms to the API Manual of Petroleum Measurement Standards, 1985. Sponsored by the API Committee on Petroleum Measurement. 1985, 26 minutes, 140 slides, workbook.
Slide-tape transfer on video
Cat. no. 65.2986: DVD $68
Streaming $45

Calculation of Gas Volume Flow
Demystifies gas volume calculations and tells how to determine gas volume flow from sample linear and L-10 charts. P1986, 22 minutes, 137 slides, workbook, nonillustrated script.
Slide-tape transfer on video
Cat. no. 65.1182: DVD $68
Streaming $45

Fundamentals of Meter Proving and Evaluation
Covers the basics of proving a meter and points out factors that affect meter performance. Sponsored by the API Committee on Petroleum Measurement. 1986, 30 minutes, 157 slides, workbook.
Slide-tape transfer on video
Cat. no. 65.1185: DVD $68
Streaming $45

Gaging Petroleum and Petroleum Product Heights in Stationary Tanks
Slide-tape transfer on video
Cat. no. 65.2981: DVD $68
Streaming $45

Gaging, Testing, and Running of Lease Tanks
Shows the proper procedures and equipment needed to gauge a lease tank accurately, obtain a sample for testing, and prepare a tank for shipment. Conforms to the API Manual of Petroleum Measurement Standards, 1985. Sponsored by the API Committee on Petroleum Measurement. 1985, 30 minutes, 138 slides, workbook.
Slide-tape transfer on video
Cat. no. 65.1184: DVD $68
Streaming $45

Gas Measurement by Orifice Meters
 Gives the nomenclature and descriptions of primary and secondary elements, calculation of flow rate with an explanation of factors in the flow formula, types and use of recording charts, and the construction and maintenance of primary elements. 1981, 35 minutes, 125 slides, workbook.
Slide-tape transfer on video
Cat. no. 65.2988: DVD $45
Streaming $30

Introduction to LACT Systems
Slide-tape transfer on video
Cat. no. 65.1188: DVD $68
Streaming $45

Manual Sampling of Petroleum and Petroleum Products
Slide-tape transfer on video
Cat. no. 65.2987: DVD $68
Streaming $45

Measurement of Petroleum and Petroleum Product Cargos Aboard Marine Vessels
Slide-tape transfer on video
Cat. no. 65.2983: DVD $83
Streaming $55

Operation of Daniel Senior Orifice Fittings
Shows the step-by-step procedures for inspecting and changing the orifice plate in a Daniel Senior™ Orifice fitting and emphasizes safe and proper techniques. Reviewed by the API Audiovisual Committee. 1990, 13 minutes.
Cat. no. 65.0300: DVD $68
Streaming $45
MEASUREMENT, CONTROL, AND STORAGE

Orifice Plates and Orifice Fittings
Describes the plates, their function, the fittings found in the oil patch, and the importance of keeping plates and fittings in good condition. Produced in cooperation with the API Audiovisual Committee. 1990, 21 minutes, 117 slides, instructor guide, student guide, nonillustrated script.
Slide-tape transfer on video
Cat. no. 65.1180: DVD $68
Streaming $45

Proving Meters with Open Tank Provers
Slide-tape transfer on video
Cat. no. 65.2980: DVD $90
Streaming $60

Tank Calibration
Intended to familiarize those who must observe tank strapping jobs with API recommendations for strapping cylindrical upright tanks that contain petroleum or petroleum products. Sponsored by the API Committee on Petroleum Measurement. 1984, 32 minutes, 155 slides, workbook.
Slide-tape transfer on video
Cat. no. 65.2990: DVD $68
Streaming $45

SAFETY

Drilling

Hand Injuries in Drilling
This program presents a graphic view of the dangers to the hands on a drilling rig. Shows rig personnel how to protect hands from injuries. Produced in cooperation with the International Association of Drilling Contractors (IADC). 1979, 17 minutes, 56 slides.
English slide-tape transfer on video
Cat. no. 65.1145: DVD $68
Streaming $45
Manos lesionadas durante operaciones de perforación
Spanish slide-tape transfer on video
Cat. no. 65.3900: DVD $30
Streaming $20

Hearing Conservation: A Sense of Importance
Stresses how important it is for rig personnel to make every effort to protect their hearing. Produced in cooperation with the International Association of Drilling Contractors (IADC). 1985, 11 minutes, 91 slides, nonillustrated script.
Slide-tape transfer on video
Cat. no. 65.1119: DVD $45
Streaming $30

Production

Hand Injuries in Well Service and Workover Operations
This program, like Hand Injuries in Drilling, gives a graphic view of dangers to the hands and shows crewmembers what they can do to prevent hand injuries. Produced in cooperation with the Association of Energy Service Companies (AESC). 1982, 17 minutes, 56 slides.
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Train your employees on their rights, responsibilities, and how to prevent job-related accidents at a work site.
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GENERAL INDUSTRY

Fundamentals of Petroleum Certificate Program

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This self-study program takes the most comprehensive book of its kind on petroleum industry basics and pairs it with 500 challenging questions designed to accompany each of the 15 chapters in the book. Print book or e-book option available. The e-book allows bookmarking and searching; it is also accessible for people with disabilities. 40 hours.

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Covers electrical flow; electrical power, magnetism, and electricity; and electrical generation. Also discusses electric motors, transformers, measurement of voltage, current, and other variables. 1978, 152 pp.

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E-Book $31
Print + E-Book $52

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Supplements Basic Electricity for the Petroleum Industry, 2nd ed.

This companion to Basic Electricity for the Petroleum Industry is designed to help learners understand and retain the material covered in the book. Learning objectives are stated and self-study questions address the main points in each chapter. 1981, 238 pp.

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Discusses the elementary concepts of electricity and magnetism and the principles of solid-state electronics. Contains an extensive glossary and review questions. 2003, 238 pp.

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Drilling

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Print Book + Assessment Cat. no. 1.00220AP $226 E-Book + Assessment Cat. no. 1.00220AE $215

An essential reference for all accounting and financial professionals as well as investors in today’s global energy industry. The book was produced in conjunction with leading international professional services firm PricewaterhouseCoopers LLP (PwC) and published by the Professional Development Institute at the University of North Texas. Helps provide petroleum accounting professionals with a reliable resource on current concepts and practices. 2011, 680 pp.

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4-COLOR EDITION

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Print + E-Book $105

Introduction to Rotary Drilling Certificate Program
3.0 CEUs

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Segment 2
Routine Drilling Operations
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The Roughneck Training Handbook

This handy reference guide written by petroleum industry expert Ron Baker provides a clear, easy-to-understand explanation of the duties, instruments, and equipment for rotary helpers and floorhands (roughnecks) working on rig floors around the world. Presented with vibrant full-color photos and illustrations, this handbook should prove useful and informative for floorhands new to the oil and gas industry, as well as experienced rig workers interested in learning more about the pipe and pipe-handling equipment employed on the rig. Includes more than 75 full-color images, readability features, review questions, and an index and glossary. 2017, 184 pages.

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Print $125

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