2020 PETEX CATALOG

Training the Oil and Gas Industry Since 1944

- Instructor-Led Courses
- Publications and Videos
- e-Learning
Message from the Director

I am pleased to join The University of Texas at Austin Petroleum Extension (PETEX) as your new Director and Executive in Residence. I bring almost 45 years of experience to PETEX, having worked in a wide variety of roles in the domestic and global energy industry. Since graduating from the Cockrell School of Engineering at The University of Texas at Austin, I’ve come full circle with joining my alma mater. This is my opportunity to “give back” to The University and to the Cockrell School as your new PETEX Director.

2019 is a major milestone year for PETEX. It is a time for us to pause and reflect on our rich history, and to celebrate our 75th anniversary of doing business in the oil and natural gas industry. Since 1944, we have developed, produced, and delivered high-quality training courses and publications to the oil and gas workforce. Product offerings have included technical instructor-led training courses, custom-designed courses, technical publications, and e-learning modules and courses. For seven decades, PETEX product offerings have been designed to meet the specific workforce training demands of our clients.

The oil and natural gas industry today is grappling with the very same workforce challenges that we faced back in 1982–86: that is, a sharp industry downturn in conjunction with older, highly experienced workers leaving the workforce.

We at PETEX understand these challenging periods in our industry, and see an opportunity to upskill the current workforce and train a new generation of industry workers. I am pleased to report that for 2019–20, we will continue to offer oil and gas learning materials and training services designed to help all kinds of workers in the industry do their jobs better. We also see an opportunity through technology to reach people where they need to learn; our many online offerings can be accessed instantly through an Internet connection whether you’re in the Permian Basin, Ghawar, Alberta, or anywhere in the world.

We are updating our current product line and developing new titles in consultation with industry experts and clients. We welcome insights from our customers about how we can improve our offerings to meet their needs. We look forward to working with you to ensure the success of the global energy workforce!

Sincerely,
Bob Parkey, Director and Executive in Residence
Petroleum Extension (PETEX®)
The University of Texas at Austin
2020 PETEX® Catalog

The Global Learning Solution for Oil and Gas Professionals

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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 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.

**PETEX Certificate Programs.** Enroll in one of our instructor-led training courses, or select a qualified e-learning program to earn a certificate of completion and continuing education units (CEUs) from The University of Texas at Austin–PETEX. See page 8 for more information.

**Instructor-Led Training.** We offer short-term classes throughout the year that combine interactive lectures from subject matter experts with lab work and immersive field trips. Earn a certificate of completion plus CEUs while broadening your professional network. See page 11 for more information.

**Technology-Enhanced 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 20 for more information.

**Videos.** Our collection of videos covers a wide-range of industry topics, including onshore and offshore drilling and production. See page 28 for more information.

### VOLUME DISCOUNTS

**Learning Tools**

For discounts on learning certificate programs, e-books, or technology-enhanced learning programs see the table below.

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**Instructor-Led Training**

If your enterprise is planning to enroll multiple students in an ILT course, you will qualify for a special volume discount. To learn more:

Call: 800.687.7052 or +1 281.397.2440 or Email: htc@petex.utexas.edu

**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 34 for more information.

**Custom Programs.** We can customize many of our learning solutions to better serve your enterprise. Our instructional designers 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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Instructor-Led Training. Advance your understanding of O&G topics with the support of industry experts and professional peers. Join us for an immersive class at one of our learning centers, and earn CEUs plus a printed certificate of completion.

*The number of CEUs that you earn depends upon the length of the course or program and will appear on your certificate.

**A score of 70% or higher on an assessment is required to earn a certificate of completion.

ACCREDITATIONS

Continuing Education Units

Many people who support the O&G industry, such as engineers, land managers, attorneys, and accountants, must obtain a certain number of continuing education units, or CEUs, each year in order to maintain a professional license or certification. PETEX awards 1 CEU for every 10 hours that is spent completing a PETEX Certificate Program, including our e-learning options and instructor-led training courses. The amount and type of professional credit that will be awarded upon the successful completion of an ILT course or program is listed at the beginning of each course or program description.

Licensing Agencies

The following agencies award professional credit to Texas members who successfully complete select ILT courses.

The American Association of Petroleum Landmen awards professional credits to Texas members who complete Elementary Drilling, Petroleum Fundamentals, Pipeline Technology, and The Rig School.

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.

The Texas State Bar awards 2.75 hours of MCLEs to members who complete The Rig School.

Your organization might award you with professional credit for completing an ILT course even if the organization is outside of Texas or the U.S. Call 800.687.7052 or +1 281.397.2440, or email htc@petex.utexas.edu if you have questions about earning professional credit through instructor-led training. Call 800.687.4132 or +1 512.471.5940, or email info@petex.utexas.edu if you have questions about earning professional credit through e-learning.

Texas Professional Engineers

Professional engineers (PEs) who work in Texas must complete 15 hours of continuing education activity each year in order to renew their license. The Texas Board of Professional Engineers (TBPE) regulates the engineering profession in Texas. This Board has the authority to audit the renewal information that licensees provide and may require proof of PEs’ educational activity. Our certificates of completion, which list the course or program title, participation dates, and number of CEUs earned, should serve as adequate proof; however, we can provide you with additional documentation if required. TBPE recommends that PEs maintain continuing education documentation for a period of three years.

Contact TBPE for additional information regarding continuing education requirements:

Texas Board of Professional Engineers
1917 South IH 35
Austin, TX 78741
Phone: +1 512.440.7723
Email: info@engineers.texas.gov or licensing@engineers.texas.gov
Website: engineers.texas.gov
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<td>LNG: Basics of Liquefied Natural Gas</td>
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<td>6.0 CEUs</td>
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<td>3.3 CEUs</td>
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<td>NGM: Fundamentals</td>
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INSTRUCTOR-LED COURSES

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Pipeline 17
2020 Course Schedule 18
Each year, PETEX hosts a wide variety of instructor-led training courses in Houston and Odessa, Texas 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 18–19.

Instructor-led courses are held at:

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

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

OFFSHORE STRUCTURES PROFESSIONAL DEVELOPMENT COURSES

Texas Engineering Executive Education’s two offshore structure short courses offer a comprehensive overview of the fundamentals and practical aspects of offshore structures. These courses are offered once a year in Austin, TX and are offered in partnership with the Offshore Technology Research Center, The University of Texas at Austin, and Texas A&M University.

Fundamentals of Offshore Structures and Design of Fixed Offshore Platforms
5.4 CEUs
Developed specifically for engineers, scientists, and technologists, this course offering will review the fundamentals of all types of offshore structures (fixed or floating) and, in the case of fixed platforms, will cover applications of these principles. 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 and the use of current, applicable engineering methods in the design of fixed offshore platforms. In addition to the traditional lecture, the course encourages group discussions of actual design problems in order to ensure students can put the newly learned concepts to use.

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.

Electronic materials will be provided for this course so participants need to bring a laptop. A hard copy version of the materials may be purchased at additional cost.

Dates  April 13–24, 2020
Length  9.5 days
Cost  $3,195
ENROLL ONLINE at executive.engr.utexas.edu/epd/fixed19.php

Design of Floating Production Systems
3.2 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.

Electronic materials will be provided for this course so participants need to bring a laptop. A hard copy version of the materials may be purchased at additional cost.

Dates  April 27–May 1, 2020
Length  4.5 days
Cost  $1,895
ENROLL ONLINE at executive.engr.utexas.edu/epd/floating19.php
## INSTRUCTOR-LED COURSES

### POPULAR SCHOOL

#### Petroleum Fundamentals

3.3 CEUs, 35 CPEs for Texas Accountants, 27 CEUs 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

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

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<tr>
<th>Dates</th>
<th>Length</th>
<th>Cost</th>
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<tr>
<td>February 3–7, 2020</td>
<td>4.5 days</td>
<td>$2,695</td>
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<tr>
<td>June 15–19, 2020</td>
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### NEWLY 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.

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<tr>
<th>Dates</th>
<th>Length</th>
<th>Cost</th>
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<tbody>
<tr>
<td>March 23–26, 2020</td>
<td>4 days</td>
<td>$2,595</td>
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</table>

### DRILLING

#### Drilling Operations

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**
- Catered lunch daily; beverages and snacks provided
- Industry field trip
- Course materials including instructor presentations
- 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.

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<th>Dates</th>
<th>Length</th>
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<tr>
<td>July 20–24, 2020</td>
<td>4.5 days</td>
<td>$2,775</td>
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<td>October 19–23, 2020</td>
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### OFFSHORE

#### The Rig School™—Introduction to Offshore Operations

3.3 CEUs, 35 CPEs for Texas Accountants, 27 CEUs 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.

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<tr>
<th>Dates</th>
<th>Length</th>
<th>Cost</th>
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<td>October 19–23, 2020</td>
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The University of Texas at Austin
Engineering Executive Education
Cockrell School of Engineering

Short courses for fundamentals and design of floating and fixed offshore structures. See page 11 for more information.

ENROLL ONLINE at petex.utexas.edu/courses or EMAIL: htc@petex.utexas.edu

**AMERICAN EXPRESS, MASTERCARD, DISCOVER, AND VISA ARE ACCEPTED**
PRODUCTION

NEWLY 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—August 10–13, 2020
2nd week—August 17–20, 2020
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

NEWLY 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 recompletion 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

Dates December 7–10, 2020
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 May 20–22, 2020
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.

Event Sponsors
PETEX greatly appreciates the following companies that regularly host events throughout the year for students who attend our Rig School course.
- AqualisBraemar
- Hall Maines Lugrin
- HFW
- Lockton Companies
- MatthewsDaniel

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
CUSTOM COURSES FOR ENTERPRISE CLIENTS

Prepare your staff for the industry challenges they’ll face with a customized course from PETEX. 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:

- Field Handling of Natural Gas—Emphasis on Engineering
- Field Handling of Natural Gas—Emphasis on Operations
- Fundamentals of Petroleum Measurement (in compressed and extended versions)
- Hydraulics for Pipeline Operators
- Petroleum Fundamentals (in compressed and extended versions)
- Petroleum Measurement Tank Calibration Witness Seminar
- Petroleum Measurement for Professionals Seminar
- Plant Processing of Natural Gas—Emphasis on Engineering
- Plant Processing of Natural Gas—Emphasis on Operations

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
- Expanding gate valve maintenance review

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 to offer the most complete valve care training available today. Based largely on existing Valve Maintenance Safety Training Seminars, ValvePro® offers practical and relevant information on thousands of valve maintenance concerns and teaches field and technical personnel to:

- Safely maintain, lubricate, and seal serviceable ball, gate, and plug valves.
- Identify valve fittings and adapters, understand their functions, recognize dangerous designs and how to safely install and operate new ones.
- Operate and maintain all makes and types of high-pressure injection equipment
- Assess the function and sealing integrity of lubricated valves commonly found in pipelines, plants, and offshore facilities.

ValvePro® training consists of two separate components:

- First component: (prerequisite) online, computer-based self-study course and test, which must be successfully completed (minimum score of 80) prior to attending the second component.
- Second component: 3-day, instructor-led training and test.

Successful completion of both components awards students PETEX certification as a ValvePro® Certified Valve Maintenance Technician.

Houston Classes

- February 4–6, 2020
- April 7–9, 2020
- July 7–9, 2020
- October 6–8, 2020

Calgary Classes

- February 18–20, 2020
- May 5–7, 2020
- August 11–13, 2020
- November 17–19, 2020

Please visit www.valvepro.com to receive more information.
MEASUREMENT, CONTROL, AND STORAGE

Natural Gas Measurement—
Fundamentals
2.7 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, gas 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 natural gas measurement 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

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
April 21–24, 2020
August 11–14, 2020

Length
3.5 days

Cost
$1,590

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
Cameroon Valves and Measurement
Certified Calibrations, Inc.
Corpus Christi Area Measurement Society
Daniel Measurement and Control, Inc.
Dynamic Flow Computers
Endress+Hauser
Faure Herman (IDEX Corporation)
FMC Technologies Inc.
FMC Measurement Solutions Inc.
GR Scientific Ltd.
Jiskoot Cameron Quality Systems
Kam Controls Inc.
Micro Motion™
Micro Motion (Emerson Process Management)
NUFLO Cameron Measurement Systems
Omni Flow Computers Inc.
Shell Corporation
Targa Resources
WFMS Inc.
W.L. Walker Company, Inc.

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

Natural Gas Measurement—
Electronic Flow Measurement
2.3 CEUs
Covers the basics of electronic flow measurement including the installation and calibration of electronic flow devices. Provides an overview of basic electrical/electronics theory and instruction on installation, operation, and calibration of electronic transmitters with practical lab exercises.

Course Content
- Basic electronics/electricity
- Electronic transmitters
- EFM utilizing multi-variable transducers
- Application of flow computers
- Audit trail/data integrity
- SCADA applications/communication methods

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
April 27–29, 2020
August 17–19, 2020

Length
3 days

Cost
$1,885
## INSTRUCTOR-LED COURSES

### 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  
  - Fundamentals of tank calibration by the manual strapping method  
- 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**  
February 10–14, 2020  
April 20–24, 2020  
September 21–25, 2020

**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 image 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**  
Personnel with 2 to 5 years of experience in pipeline, refining, and production measurement operations; those participating in automatic 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**  
April 27–May 1, 2020  
September 28–October 2, 2020

**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 aboveground 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 of 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, and 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 proving 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**  
May 4–8, 2020  
October 5–9, 2020

**Length**  
4.5 days  
Cost  
$2,385

---

ENROLL ONLINE at petex.utexas.edu/courses or EMAIL: htc@petex.utexas.edu
### 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 densitometer 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 26–30, 2020

**Length**
4.5 days

**Cost**
$2,385

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### Pipeline Technology

**10.1 CEUs**

Covers pipeline design, construction, operations, maintenance, and management. May be taken in one-week modules.

**Course Content**

**1ST WEEK—PIPELINE DESIGN**

- 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**

- Product terminals and supervisory control systems
- Drag reducing agents
- Meters and measurement
- Power optimization
- Economics of pipeline transportation
- Mainline tanks and materials of construction

**3RD WEEK—MAINTENANCE**

- Line maintenance
- Corrosion
- Maintenance equipment
- Leak detection
- Components of automatic controls
- 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**
- Catered lunch daily; beverages and snacks provided
- Course materials including instructor presentations
- Use of scientific calculator and measurement tools

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

**Dates**
1st week—February 3–7, 2020
November 2–6, 2020

---

### Pipeline Technology, cont.

**2ND WEEK—November 9–13, 2020**

**3RD WEEK—November 16–20, 2020**

**Length**
- 1st week—4.5 days–3.3 CEUs
- 2nd week—5 days–3.8 CEUs
- 3rd week—4.5 days–3.3 CEUs

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

### 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.

**Course Content**
- Introduction to pipeline hydraulics
- Fluid characteristics and pipeline design
- 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**
- June 1–4, 2020
- December 7–10, 2020

**Length**
- 4 days

**Cost**
- $2,275
# 2020 COURSE SCHEDULE

Classes are held at the PETEX Houston Training Center. Training dates and prices are subject to change.

<table>
<thead>
<tr>
<th>Course</th>
<th>Professional Credits</th>
<th>Length</th>
<th>2020</th>
<th>Tuition</th>
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<tr>
<td><strong>FEBRUARY</strong></td>
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<tr>
<td><strong>Petroleum Fundamentals</strong>, pg. 12 (see page 8 for details on credits)</td>
<td>3.3 CEUs</td>
<td>4.5 days</td>
<td>February 3–7</td>
<td>$2,695</td>
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<td>35 CPEs/TX Accountants</td>
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<td>27 CEs/TX Landmen</td>
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<tr>
<td><strong>Pipeline Technology</strong>, 1st Week–Pipeline Design, pg. 17</td>
<td>3.5 CEUs</td>
<td>4.5 days</td>
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<tr>
<td><strong>Fundamentals of Petroleum Measurement</strong>, pg. 16 (first of three levels)</td>
<td>3.3 CEUs</td>
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<td>February 10–14</td>
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<tr>
<td><strong>MARCH</strong></td>
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<tr>
<td><strong>Elementary Drilling</strong>, pg. 12</td>
<td>3.0 CEUs</td>
<td>4 days</td>
<td>March 23–26</td>
<td>$2,595</td>
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<tr>
<td><strong>Valves and Actuators–Operation and Maintenance</strong>, pg. 14</td>
<td>2.2 CEUs</td>
<td>3 days</td>
<td>March 24–26</td>
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<td><strong>APRIL</strong></td>
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<td><strong>Fundamentals of Offshore Structures and Design of Fixed Offshore Platforms</strong>, pg. 11</td>
<td>5.4 CEUs</td>
<td>9.5 days</td>
<td>April 13–24</td>
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<td>3.3 CEUs</td>
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<tr>
<td><strong>Natural Gas Measurement—Fundamentals</strong>, pg. 15</td>
<td>2.7 CEUs</td>
<td>3.5 days</td>
<td>April 21–24</td>
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<td><strong>Natural Gas Measurement—Electronic Flow Measurement</strong>, pg. 15</td>
<td>2.3 CEUs</td>
<td>3 days</td>
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<td><strong>Intermediate Petroleum Measurement</strong>, pg. 16 (second of three levels)</td>
<td>3.3 CEUs</td>
<td>4.5 days</td>
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<td><strong>Design of Floating Production Systems</strong>, pg. 11 (third of three levels)</td>
<td>3.2 CEUs</td>
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<td><strong>LNG: Basics of Liquefied Natural Gas</strong>, pg. 13</td>
<td>1.9 CEUs</td>
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<td>3.3 CEUs</td>
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* These courses are held in Austin only. Please see executive.engr.utexas.edu for further details.
## 2020 COURSE SCHEDULE

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<td>Completion and Workover, pg. 13</td>
<td>3.0 CEUs</td>
<td>4 days</td>
<td>December 7–10</td>
<td>$2,595</td>
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</tbody>
</table>
General Industry 22
Exploration 23
Drilling 23
Well Control 25
Production 25
Well Completion and Workover 26
Refining and Transportation 26
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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
- 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
- Petroleum Economics

Certificate program: 35+ hours
Cat. no. 97.C0110 (12-month license) $995

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 (12-month license) $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 (12-month license) $75

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 (12-month license) $75

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 (12-month license) $50

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 (12-month license) $50

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 (12-month license) $75

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GENERAL INDUSTRY

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 (12-month license) $75

PETEX e-books make reading easy on your personal computer or tablet.
**TECHNOLOGY-ENHANCED LEARNING**

**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 (12-month license) $135

**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 (12-month license) $75

**E-LEARNING MODULE**

**Petroleum Geology**

Learn about 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 (12-month license) $135

**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 Onshore Rig
- Interactive Offshore 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 (12-month license) $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 (12-month license) $99

**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 and Companies
- 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 (12-month license) $695

**Interactive Offshore Oil Rig**

*Explore the inner workings of an offshore rig.*

See full description on page 24.
**DRILLING**

**Rig Components**

**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 (12-month license) **$75**

**E-LEARNING MODULE**

**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.M1310 (12-month license) **$95**

**E-LEARNING MODULE**

**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 (12-month license) **$50**

**E-LEARNING MODULE**

**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 (12-month license) **$95**

**E-LEARNING MODULE**

**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 (12-month license) **$125**

**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 (12-month license) **$50**

**E-LEARNING MODULE**

**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 (12-month license) **$95**

**E-LEARNING MODULE**

**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 (12-month license) **$165**

**E-LEARNING MODULE**

**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 (12-month license) **$75**

**E-LEARNING MODULE**

**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 (12-month license) **$95**
Also available with Spanish translation of content (audio in English)
Cat. no. 92.M0311 (12-month license) **$95**

**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 (12-month license) **$75**

**E-LEARNING MODULE**

**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.M1310 (12-month license) **$95**

**E-LEARNING MODULE**

**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 (12-month license) **$50**

**E-LEARNING MODULE**

**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 (12-month license) **$95**

**E-LEARNING MODULE**

**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 (12-month license) **$125**

**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 (12-month license) **$50**

**E-LEARNING MODULE**

**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 (12-month license) **$95**

**E-LEARNING MODULE**

**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 (12-month license) **$165**

**E-LEARNING MODULE**

**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 (12-month license) **$75**

**E-LEARNING MODULE**

**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 (12-month license) **$95**
Also available with Spanish translation of content (audio in English)
Cat. no. 92.M0311 (12-month license) **$95**

**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.

**Rotary Drilling Series**

*The most complete lesson series available!*

A value of $1,584.
Buy all five units (29 books) for discounted price of only $1,424!
TECHNOLOGY-ENHANCED LEARNING

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 (12-month license)  $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 (12-month license)  $75

PRODUCTION

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 (12-month license)  $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 (12-month license)  $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.
Individual module*: 30 to 45 minutes
Cat. no. 93.M0910 (12-month license)  $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 (12-month license)  $95

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 (12-month license)  $125

SOFTWARE PROJECT MANAGEMENT

Software Project Management
Learn about how a software project should be managed from inception to post implementation review. Available online 24/7.
Register at executive.engr.utexas.edu/epd/essentials.php

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TELEPHONE ORDERS: 800.687.4132 or 512.471.5940 or FAX ORDERS TO: 800.687.7839 or 512.471.9410
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 (12-month license) $95

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 (12-month license) $125

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 (12-month license) $75

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 (12-month license) $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 (12-month license) $95

**Fundamentals of Petroleum** can be experienced in print and e-book (page 35), certificate program (this page), and via the instructor-led training course, Petroleum Fundamentals (page 12).
# E-Courses and E-Learning Modules

*Offered as a single-user license (subscription) basis valid for twelve (12) continuous calendar months.*

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GENERAL INDUSTRY

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

BEST SELLER

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.
*Available for 12 months. No retake available.
Cat. no. 65.0120AV
DVD + Assessment $199
Streaming + Assessment $149

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?
Cat. no. 65.0524: DVD $45
Streaming $29

So You Want to Be a Roughneck Certificate Program
0.1 CEUs
This self-study training package includes an online assessment* (with 30 questions) and a copy of the video, So You Want to Be a Roughneck? Earn a Certificate of Completion from the University of Texas at Austin—PETEX when you successfully finish this program. Est. time commitment: 40 minutes + test time.
*Available for 12 months. No retake available.
Cat. no. 65.6070AV
DVD + Assessment $199
Streaming + Assessment $149

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

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Customize any course to fit your company’s needs. See page 14 for the full list of custom courses.
**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. 65.6010: DVD $30
Streaming $50

**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, tallying, 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. 65.1092: DVD $48
Streaming $65

**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
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**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.

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**Safe Use of Drill Pipe Tongs**
Demonstrates the correct and safe installation, maintenance, and use of drill pipe tongs. Produced in cooperation with the International Association of Drilling Contractors (IADC). 1978, 17 minutes, 61 slides, workbook.

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**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.

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Spanish slide-tape transfer on video
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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
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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 jackup, 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.
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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
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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.
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3. Unit Start-Up and Shutdown
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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.
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Cat. no. 65.1174: DVD $98
Streaming $65

Safety

Hand Injuries in Well Service and Workover Operations, see pg. 33
Safe Handling of Compressed Gas Cylinders, see pg. 33

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.
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Calculation of Gas Volume Flow
Demystifies gas volume calculations and tells how to determine gas volume flow from sample linear and L-10 charts. P1988, 22 minutes, 137 slides, workbook, nonillustrated script.
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**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*
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**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.

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**Safe Use of Drill Pipe Tongs**
Demonstrates the correct and safe installation, maintenance, and use of drill pipe tongs. Produced in cooperation with the International Association of Drilling Contractors (IADC). 1978, 17 minutes, 61 slides, workbook.

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*El uso seguro de las tenazas para tubería de perforación*
Spanish slide-tape transfer on video
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**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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Cat. no. 65.1150: DVD $45
Streaming $30

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Arithmetic for Rig Personnel, 2nd ed.
Pocket-sized quick reference with the calculations rig hands frequently encounter. Emphasizing use of the calculator, this handbook gives equations for important rig calculations and other tools to help crewmembers avoid mistakes. 2009, 72 pp.
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Cat. no. 2.80130 ISBN 978-0-97229-863-6
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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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