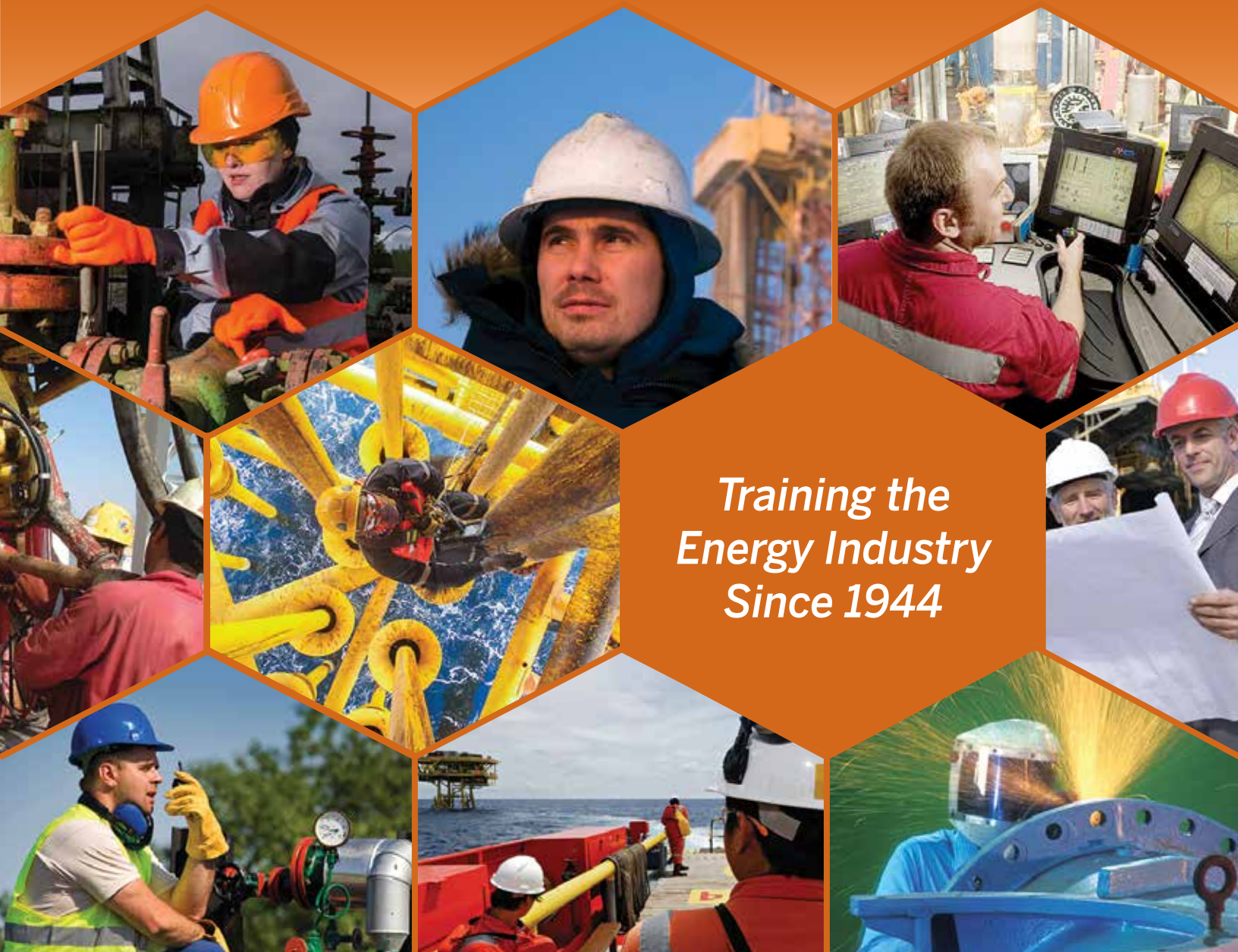
The University of Texas at Austin
Petroleum Extension (PETEX®)
Cockrell School of Engineering

2021

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.

Visit us online at petex.utexas.edu

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PETEX West Texas Training Center

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2021 PETEX® Catalog

The Global Learning Solution for Energy Professionals

The University of Texas at Austin
Petroleum Extension (PETEX®)
Cockrell School of Engineering

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.*

VOLUME DISCOUNTS

Learning Tools

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

Number of Licensed Users	3 to 10	11 to 20	21 to 50	51 to 99
Discount	10%	20%	35%	45%

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

Order online and automatically receive a 15% discount whenever you purchase 25+ copies of a single publication. For further volume discounts on publications, please contact us at:

Call: 800.687.4132 or +1 512.471.5940
or *Email*: info@petex.utexas.edu

LEARNING TOOLS AND SERVICES

Category	Title	Certificate Program	Instructor-Led Training	E-Learning	Video	Publication
General Industry	*Applied Mathematics for the Petroleum and Other Industries*					pg. 36
	Basic Electricity for the Petroleum Industry and workbook					pg. 36
	Basic Electronics for the Petroleum Industry					pg. 36
	Basic Instrumentation					pg. 36
	Changing the Way America Thinks About Energy					pg. 36
	A Dictionary for the Oil and Gas Industry					pg. 37
	Fundamentals of Petroleum	pg. 36				pg. 36
	Fundamental Principles of Gas Turbines and workbook					pg. 37
	Introduction to Petroleum			pg. 23		
	Land and Leasing	pg. 36				pg. 36
	Man Management and Rig Management					pg. 42
	Offshore Oil and Gas Leasing			pg. 23		
	Onshore Oil and Gas Leasing			pg. 23		
	People and Companies			pg. 23		
	Petroleum Accounting: Principles, Procedures, & Issues					pg. 37
	Petroleum Economics			pg. 23		
	Petroleum Fundamentals	pp. 12, 23	pg. 12	pg. 23		
	Profile: The Petroleum Industry				pg. 30	
	Well Planning			pg. 23		
Exploration	Formation Evaluation			pg. 24		
	Petroleum Exploration			pg. 24		
	Petroleum Geology			pg. 24		
	Petroleum Geology and Reservoirs					pg. 47
	Practical Petroleum Geology	pg. 37				pg. 37
Drilling	*Arithmetic for Rig Personnel*					pg. 38
	Care and Maintenance of Blocks, Top Drives, and Rotaries				pg. 31	
	Cement and Cement Additives				pg. 31	
	The Circulating System			pg. 25		
	Controlled Directional Drilling			pg. 25		pg. 41
	Diesel Prime Movers				pg. 31	
	The Drawworks				pg. 31	
	Drilling Supervisors Guide to Understanding and Maintaining Drilling Fluids, The					pg. 38
	Drilling Technology Series					pg. 38
	Elementary Drilling	pp. 12, 24	pg. 12	pg. 24		
	Handling and Running Casing				pg. 31	
	The Hoisting System			pg. 25		
	Interactive Onshore Rig			pg. 25		
	Introduction to Petroleum and Drilling Systems Overview			pg. 24		
	Introduction to Rotary Drilling	pg. 38				pg. 38
	Liner Cementing				pg. 31	
	Makin' Hole: How Oilwells Are Drilled	pg. 30			pg. 30	
	Oilwell Drilling Primer	pg. 24		pg. 24		
	Open-Hole Fishing			pg. 25		
	Overview of Drilling Systems			pg. 25		
	The Pit Watcher				pg. 31	
	The Power System			pg. 25		
	Practical Underbalanced Drilling and Workover					pg. 39
	A Primer of Oilwell Drilling	pg. 37				pg. 37
	Principles of Drilling Fluid Control					pg. 39
	Rig Math					pg. 39

Category	Title	Certificate Program	Instructor-Led Training	E-Learning	Video	Publication
Drilling, cont.	Rotary Drilling Rig Types			pg. 25		
	Rotary Drilling Series, Unit I: The Rig and Its Maintenance					pg. 40
	Rotary Drilling Series, Unit II: Normal Drilling Operations					pg. 41
	Rotary Drilling Series, Unit III: Nonroutine Operations					pg. 41
	The Rotary Rig and Its Components Poster					pg. 39
	The Rotating System			pg. 25		
	Roughneck Training Handbook, The					pg. 39
	Roughneck Training Series				pg. 30	
	Routine Drilling Operations	pg. 38		pg. 25		pg. 38
	So You Want to Be a Roughneck?	pg. 30			pg. 30	
	Special Drilling Operations	pg. 38				pg. 38
	Types of Wells			pg. 23		
	Trouble Free Drilling					pg. 39
Offshore	*Advanced Stability*					pg. 43
	Comprehensive Stability					pg. 43
	Handling and Running Buoyant Riser				pg. 32	
	Moving Your Rig				pg. 32	
	Interactive Offshore Rig			pg. 25		
	Offshore Oil and Gas Leasing			pg. 23		
	Offshore Well Construction					pg. 43
	A Primer of Offshore Operations					pg. 43
	The Rig School™—*Introduction to Offshore Operations*	pg. 12	pg. 12			
	Rotary Drilling Series, Unit V: Offshore Technology					pg. 42
Well Control	Blowout Prevention System			pg. 26		
	Introduction to Well Control	pg. 32			pg. 32	pg. 43
	Practical Well Control					pg. 43
	Well Control			pg. 26		
Production	*The Acoustic Fluid Level Measurements in Oil & Gas Wells Handbook*					pg. 44
	Artificial Lift			pg. 26		pg. 45
	The Beam Lift Handbook					pg. 44
	Completion and Workover	pg. 13	pg. 13			
	Field Handling of Natural Gas and workbook					pg. 45
	Field Handling of Natural Gas, Vol. 1: Production and Conditioning and workbook					pg. 44
	Gas Lift Series				pg. 32	
	Glycol Dehydrators Series				pg. 33	
	Improved Recovery Techniques			pg. 26		
	LNG: Basics of Liquefied Natural Gas	pg. 13	pg. 13			pg. 45
	Oil and Gas Production Series					pg. 45
	Oil and Gas: The Production Story					pg. 44
	An Oil Lease and Its Components Poster					pg. 44
	Petroleum Production Operations					pg. 44
	Plant Processing of Natural Gas	pg. 45				pg. 45
	Production Basics	pg. 26		pg. 26		
	Production Technology	pg. 13	pg. 13			
	Reservoir Drive Mechanisms			pg. 26		
	Surface Handling of Well Fluids			pg. 26		
	Treating Oilfield Emulsions					pg. 44
	Valves and Actuators—*Operation and Maintenance*	pg. 14	pg. 14			
	ValvePro Certified Valve Maintenance Technician	pg. 14	pg. 14			
	Wireline Operations with Gas-Lift Valves				pg. 32	

Category	Title	Certificate Program	Instructor-Led Training	E-Learning	Video	Publication
Well Completion and Workover	*Artificial Lift Methods*					pg. 47
	Completion and Workover	pg. 13	pg. 13			
	Hand Injuries in Well Service and Workover Operations				pg. 34	
	Petroleum Geology and Reservoirs					pg. 47
	Well Completion			pg. 27		
	Well Service and Workover			pg. 27		
	Well Servicing and Workover Series					pg. 47
	Well Stimulation Treatments					pg. 47
	Well Stimulation			pg. 27		
Measurement, Control, and Storage	Advanced Petroleum Measurement	pg. 16	pg. 16			
	Automatic Sampling of Petroleum and Petroleum Products				pg. 33	
	Calculation of Gas Volume Flow				pg. 33	
	Fundamentals of Meter Proving and Evaluation				pg. 33	
	Fundamentals of Petroleum Measurement	pg. 16	pg. 16			
	Gaging Petroleum and Petroleum Product Heights in Stationary Tanks				pg. 33	
	Gaging, Testing, and Running of Lease Tanks				pg. 33	
	Gas and Liquid Measurement					pg. 46
	Gas Measurement by Orifice Meters				pg. 33	
	Intermediate Petroleum Measurement	pg. 16	pg. 16			
	Introduction to LACT Systems				pg. 33	
	Manual Sampling of Petroleum and Petroleum Products				pg. 33	
	Mass Measurement of Hydrocarbon Fluids	pg. 17	pg. 17			
	Measurement of Petroleum and Petroleum Product Cargos Aboard Marine Vessels				pg. 33	
	Meter Assessment/Measurement Audit	pg. 15	pg. 15			
	NGM—Fundamentals	pg. 15	pg. 15			
	Operation of Daniel Senior Orifice Fittings				pg. 33	
	Orifice Plate and Orifice Fittings				pg. 34	
	A Primer of Oil and Gas Measurement and workbook					pg. 46
	Proving Meters with Open Tank Provers				pg. 34	
	Quick Reference for Oil and Gas Measurement					pg. 46
	Tank Calibration Witness	pg. 17	pg. 17		pg. 34	
Pipeline	Hydraulics for Pipeline Engineers	pg. 18	pg. 18			
	Introduction to the Oil Pipeline Industry					pg. 48
	Oil Pipeline Construction and Maintenance					pg. 48
	Pipe Line Construction Poster					pg. 48
	Pipe Line Construction					pg. 48
	Pipeline Technology	pg. 18	pg. 18			
Refining and Transportation	Refining and Processing Petroleum			pg. 27		
	Material Loss Control in Refineries and Petrochemical Plants	pg. 17	pg. 17			
	Transporting Petroleum, Petroleum Derivatives, and Natural Gas			pg. 27		
Safety	Hand Injuries in Drilling				pg. 34	
	Hand Injuries in Well Service and Workover Operations				pg. 34	
	Hearing Conservation: A Sense of Importance				pg. 34	
	Helicopter Safety					pg. 42
	H_2S Safety Handbook					pg. 48
	Safety on the Rig					pg. 41
	Use and Care of Basic Tools				pg. 34	

HOW TO ORDER OR REGISTER

PETEX learning solutions are designed for individuals and small- to large-size teams. All products and services that are listed below and throughout this catalog can be ordered online through our website. Visit petex.utexas.edu to place your order or to register for an instructor-led training (ILT) course.

Custom Programs and Enterprise Solutions

We can help you design and deploy a learning solution that suits your business needs. Call 800.687.4132 or +1 512.471.5940, or send an email to info@petex.utexas.edu with a description of your enterprise requirements to request a consultation.

Instructor-Led Training

Our ILT courses are held at our training centers in Houston and Odessa, Texas and/or online (See page 11.) For registration inquiries, email us at htc@petex.utexas.edu or call 800.687.7052 or +1 281.397.2440.

Visit petex.utexas.edu to register online for an ILT course.

Tuition

Your tuition must be paid in full at least thirty (30) days prior to the first day of class. After we receive your payment, you will receive an email confirmation with additional instructions, an invitation letter for VISA (if applicable), and a link to a map of the training center. Your tuition fee includes course instruction, classroom materials, lunch (as indicated), and light refreshments. Your tuition fee does not include travel expenses, additional meals, or accommodations, all of which are your responsibility. The tuition fee is for an individual unless specified otherwise. Tuition is subject to change without notice.

Cancellations

You may be eligible for a full (100%) refund of your tuition fee if your cancellation request is received at least thirty (30) days prior to the first day of class. You may be eligible for a partial (50%) refund if your cancellation request is received after the full-refund deadline passes up until eleven (11) days prior to the first day of class. **No refund will be given for cancellations that are received within ten (10) days prior to the first day of class.** You must submit your written request for cancellation in an email to htc@petex.utexas.edu. Please call 800.687.7052 or +1 281.397.2440 if you have questions concerning cancellations.

Transfers

You may transfer to another course if your request to do so is received at least seven (7) days prior to the first day of class. *Enterprise clients*: If we receive a transfer request six (6) days or less prior to the first day of class, you must select and submit to us the name and credentials of another internal employee who will be attending or else forfeit all tuition. If the transfer was approved by us but your employee does not attend the reassigned course for whatever reason, then you forfeit all tuition, enrollment will not be reassigned to another person from the company, and your employee will not be permitted to transfer to another course a second time. Individuals/Clients requesting a transfer to another class that is scheduled for the subsequent year will be responsible for any increase in tuition fees. Submit transfer requests in an email to htc@petex.utexas.edu. Please call 800.687.7052 or +1 281.397.2440 if you have questions concerning transfers.

Other Learning Tools

To order a e-learning Certificate Program, e-learning program, video, or e-book/print publication:

Call: 800.687.4132 or +1 512.471.5940
Online: petex.utexas.edu
Email: info@petex.utexas.edu

Delivery

If you purchase a e-learning Certificate Program, e-book, or any e-learnng program, you will receive instructions via email within two (2) hours (during normal business hours) that explain how to access your purchase.

We typically ship print media and videos via FedEx within three (3) business days after your order is placed. **Please provide a street address when placing your order. We cannot ship to P.O. Box numbers.**

To request special shipping arrangements, call 800.687.4132 or +1 512.471.5940. You are responsible for shipping charges and any sales tax that might be incurred at the time your order is placed. Additional delivery time might be required for special orders.

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We cannot ship an order until your payment is received in full. As an international customer, you are responsible for any fees, customs duties, and other taxes that might be incurred. Please consider this responsibility before placing your order with us.

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We do not accept returns or provide refunds unless a product is damaged during shipping. Please inspect your order carefully upon receipt. A return or exchange request must be made within five (5) business days of delivery. If your order is damaged, email info@petex.utexas.edu, or call 800.687.4132 or +1 512.471.5940.

Payment Methods

We accept Visa, Master Card, Discover, and American Express. We also accept company checks, wire transfers, and money orders made payable to The University of Texas at Austin. **We do not accept personal checks or foreign checks.**

Payments must be made and remitted in U.S. dollars and drawn on a U.S. bank. You are responsible for any bank handling fees that might be incurred.

Pricing

The price, terms, conditions, and availability of our learning tools and services are subject to change without notice. Visit petex.utexas.edu to obtain up-to-date information about our learning tools and services.

Customer Support

If you experience any technical problems or delivery issues:

Call: 800.687.4132 or +1 512.471.5940
Email: info@petex.utexas.edu

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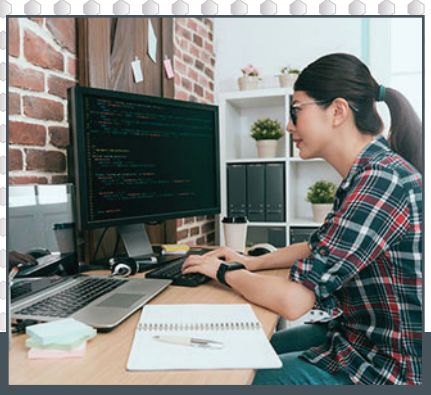

CERTIFICATE PROGRAMS

Improve your professional competency and earn continuing education units (CEUs) with industry-recognized PETEX certificate programs.

Whether you prefer the flexibility of learning remotely from your home or work computer or like learning firsthand from subject matter experts in a classroom setting, PETEX certificate programs provide a convient, fast way to keep up with oil and gas trends and technologies.

How do PETEX certificate programs work? Select a Learning Certificate Program, or sign up for an instructor-led training (ILT) course, and receive a certificate of completion from The University of Texas at Austin–PETEX, plus a set number of CEUs* when you meet all requirements. It's that easy. Details below.

Learning Certificate Programs. A self-paced assessment accompanies e-learning modules, videos, and select publications. Pass the assessment** to earn CEUs and download your certificate of completion.

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 or online, 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 a 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

Category	Title	Professional Credits	Instructor-Led Training	E-Learning	Video	Publication
General Industry	Fundamental of Petroleum	4.0 CEUs				pg. 36
	Land and Leasing	3.0 CEUs				pg. 36
	Petroleum Fundamentals e-Course	3.5 CEUs		pg. 23		
	Petroleum Fundamentals	3.3 CEUs 35 CPEs for TX Accountants, 27 CEs for TX Landmen	pg. 12			
Exploration	Practical Petroleum Geology	3.0 CEUs				pg. 37
Drilling	Elementary Drilling	3.0 CEUs	pg. 12			
	Elementary Drilling e-Course	2.0 CEUs		pg. 24		
	Introduction to Rotary Drilling	3.0 CEUs				pg. 38
	Makin' Hole: How Oilwells Are Drilled	0.1 CEUs			pg. 30	
	Oilwell Drilling Primer e-Course	2.5 CEUs		pg. 24		
	A Primer of Oilwell Drilling	3.0 CEUs				pg. 37
	Routine Drilling Operations	3.0 CEUs				pg. 38
	So You Want to Be a Roughneck?	0.1 CEUs			pg. 30	
	Special Drilling Operations	3.0 CEUs				pg. 38
Offshore	The Rig School—*Introduction to Offshore Operations*	3.3 CEUs 35 CPEs TX Accountants, 27 CEs for TX Landmen, 2.75 MCLEs for TX Lawyers	pg. 12			
Well Control	Introduction to Well Control	0.1 CEUs			pg. 32	
Production	Field Handling of Natural Gas, *Volume 1—Production and Conditioning*	2.0 CEUs				pg. 44
	LNG: Basics of Liquefied Natural Gas	1.9 CEUs	pg. 13			
	Plant Processing of Natural Gas	3.0 CEUs				pg. 45
	Production Basics e-Course	0.8 CEUs		pg. 26		
	Production Technology	6.0 CEUs	pg. 13			
	Valves and Actuators—*Operation and Maintenance*	2.2 CEUs	pg. 14			
Completion and Workover	Completion and Workover	3.0 CEUs	pg. 13			
Measurement, Control, and Storage	Advanced Petroleum Measurement	3.3 CEUs	pg. 16			
	Fundamentals of Petroleum Measurement	3.3 CEUs	pg. 16			
	Intermediate Petroleum Measurement	3.3 CEUs	pg. 16			
	Mass Measurement of Hydrocarbon Fluids (Direct and Inferred)	3.3 CEUs	pg. 17			
	Meter Assessment/Measurement Audit	0.4 CEUs	pg. 15			
	NGM: Fundamentals	2.4 CEUs	pg. 15			
	Tank Calibration Witness	0.4 CEUs	pg. 17			
Pipeline	Hydraulics for Pipeline Engineers	3.0 CEUs	pg. 18			
	Pipeline Technology	10.1 CEUs 30 CPEs for TX Landmen	pg. 18			
Refining	Material Loss Control in Refineries and Petrochemical Plants	0.1 CEUs	pg. 17			

INSTRUCTOR-LED COURSES

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

2.85 CEUs

This course offering will provide participants with an understanding of the design, construction, and current engineering methods for fixed offshore platforms. Explore topics such as Earthquake Engineering, Spectral Analysis Application, and Structural Reliability. 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.

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 CEs 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.

Fundamentals of Energy Resource, cont.

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 CEs 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

AMERICAN EXPRESS, MASTERCARD, DISCOVER, AND VISA ARE ACCEPTED

PRODUCTION

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 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
- 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

Event Sponsors

PETEX greatly appreciates the following companies that regularly host events throughout the year for students who attend our Rig School course.

AqualisBraemar
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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

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.

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

Valves and Actuators—*Operation and Maintenance*, cont.

- Expanding gate valve maintenance review
- Valve maintenance

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

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.

Length 20–30 hours

- Second component: 3-day, instructor-led training and test.

Length 3 days

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

Classes are held in Houston, TX (USA), Calgary, AB (Canada) or additional locations by request.

Please visit www.valvepro.com to receive more information.

Sealweld®

ValvePro®

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, 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 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
- H_2S analyzers: description and comparison of the theory and operation of the various H_2S 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 supervisor, 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
  - > 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 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 innage 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 1 to 3 years of experience in the oil and gas business, especially pipeline, refining and production operations. Measurement operators, technicians, and engineers who actively participate in liquid volume measurement operations and need to expand or 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 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 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

NEW COURSE

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 operations 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

PIPELINE

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

- Catered lunch daily; beverages and snacks provided
- Course materials including instructor presentations for each session attended
- 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 willl 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 privet 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

2021 COURSE SCHEDULE

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

Course	Professional Credits	Length	2021	Location	Tuition
JANUARY					
Material Loss Control in Refineries and Petrochemical Plants, pg. 17	1.6 CEUs	16 hours	January 11–14 (9:00 am–1:00 pm CST)	Online	$1,595
FEBRUARY					
Fundamentals of Energy Resource, pg. 12	0.4 CEUs	4 hours	February 17 (9:00 am–1:00 pm CST)	Online	$485
Fundamentals of Petroleum Measurement, pg. 16 (*first of three levels*)	3.3 CEUs	33 hours	February 22–26 March 1–3 (9:00 am–1:00 pm CST)	Online	$2,385
LNG: Basics of Liquefied Natural Gas, pg. 13	1.9 CEUs	2.5 days	February 22–24	Online	$1,590
MARCH					
Pipeline Risk, pg. 18	0.8 CEUs	8 hours	March 9–10 (9:00 am–1:00 pm CST)	Online	$985
Intermediate Petroleum Measurement, pg. 16 (*second of three levels*)	3.3 CEUs	33 hours	March 22–26 March 29–31 (9:00 am–1:00 pm CST)	Online	$2,385
APRIL					
Pipeline Technology, *1st Week*–Pipeline Design, pg. 18	3.0 CEUs	30 hours	April 19–22 April 26–29 (9:00 am–1:00 pm CST)	Online	$2,385
MAY					
Material Loss Control in Refineries and Petrochemical Plants, pg. 17	1.6 CEUs	16 hours	May 3–6 (9:00 am–1:00 pm CST)	Online	$1,595
Fundamentals of Energy Resource, pg. 12	0.4 CEUs	4 hours	May 11 (9:00 am–1:00 pm CST)	Online	$485
Meter Assessment/Measurement Audit, pg. 15	0.4 CEUs	4 hours	May 18 (9:00 am–1:00 pm CST)	Online	$485
Natural Gas Measurement—*Fundamentals*, pg. 15	2.7 CEUs	5 days	February 8–12	Online	$1,885
JUNE					
Advanced Petroleum Measurement, pg. 16 (*third of three levels*)	3.3 CEUs	4.5 days	June 14–18	Houston	$2,385
Production Technology, *1st Week*–Subsurface, pg. 13	3.0 CEUs	4 days	June 14–17	Houston	$2,595
Production Technology, *2nd Week*–Surface, pg. 13	3.0 CEUs	4 days	June 21–24	Houston	$2,595
Tank Calibration Witness, pg. 17	0.8 CEUs	8 hours	June 29–30 (9:00 am–1:00 pm CST)	Online	$785
JULY					
Fundamentals of Petroleum Measurement, pg. 16 (*first of three levels*)	3.3 CEUs	4.5 days	July 26–30	Odessa	$2,385

2021 COURSE SCHEDULE

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

Course	Professional Credits	Length	2021	Location	Tuition
AUGUST					
Elementary Drilling, pg. 12	3.0 CEUs	4 days	August 2–5	Houston	$2,595
Tank Calibration Witness, pg. 17	0.8 CEUs	8 hours	August 3–4 (9:00 am–1:00 pm CST)	Online	$785
Hydraulics for Pipeline Engineers, pg. 18	3.0 CEUs	4 days	August 9–12	Houston	$2,275
Completion and Workover, pg. 13	3.0 CEUs	4 days	August 16–19	Houston	$2,595
Natural Gas Measurement—*Fundamentals*, pg. 15	2.4 CEUs	3 days	August 24–26	Houston	$1,885
Fundamentals of Energy Resource, pg. 12	0.4 CEUs	4 hours	August 31 (9:00 am–1:00 pm CST)	Online	$485
SEPTEMBER					
Fundamentals of Petroleum Measurement, pg. 16 (*first of three levels*)	3.3 CEUs	4.5 days	September 13–17	Houston	$2,385
Pipeline Technology, pg. 18	9 CEUs/30 CEs/TX Landmen				
1st Week–Pipeline Design	3 CEUs	4 days	September 13–16	Houston	$2,385
2nd Week–Operations	3 CEUs	4 days	September 20–23	Houston	$2,385
3rd Week–Maintenance	3 CEUs	4 days	September 27–30	Houston	$2,385
Intermediate Petroleum Measurement, pg. 16 (*second of three levels*)	3.3 CEUs	4.5 days	September 20–24	Houston	$2,385
Advanced Petroleum Measurement, pg. 16 (*third of three levels*)	3.3 CEUs	4.5 days	September 27–October 1	Houston	$2,385
OCTOBER					
Meter Assessment/Measurement Audit, pg. 15	0.4 CEUs	4 hours	October 12 (9:00 am–1:00 pm CST)	Online	$485
The Rig School™—*Introduction to Offshore Operations*, pg. 12 *(see page 8 for details on credits)*	3.3 CEUs 35 CPEs/TX Accountants 27 CEs/TX Landmen 2.75 MCLEs/TX Lawyers	4.5 days	October 18–22	Houston	$2,775
Mass Measurement of Hydrocarbon Fluids, pg. 17	3.3 CEUs	4.5 days	October 25–29	Houston	$2,385
NOVEMBER					
Pipeline Risk, pg. 18	0.8 CEUs	8 hours	November 2–3 (9:00 am–1:00 pm CST)	Online	$985
Fundamentals of Petroleum Measurement, pg. 16 (*first of three levels*)	3.3 CEUs	4.5 days	November 8–12	Odessa	$2,385
Petroleum Fundamentals, pg. 12 *(see page 8 for details on credits)*	3.3 CEUs 35 CPEs/TX Accountants 27 CEs/TX Landmen	4.5 days	November 15–19	Houston	$2,695
Valves and Actuators–*Operation and Maintenance*, pg. 14	2.2 CEUs	3 days	November 16–18	Houston	$1,590
DECEMBER					
Fundamentals of Energy Resource, pg. 12	0.4 CEUs	4 hours	December 2 (9:00 am–1:00 pm CST)	Online	$485
LNG: Basics of Liquefied Natural Gas, pg. 13	1.9 CEUs	2.5 days	December 6–8	Houston	$1,590
Hydraulics for Pipeline Engineers, pg. 18	3.0 CEUs	4 days	December 6–9	Houston	$2,275


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GENERAL INDUSTRY

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
- Petroleum Economics

Certificate program: 35+ hours
Cat. no. 97.C0110 $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 $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

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

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

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

PETEX e-books make reading easy on your personal computer or tablet.

EXPLORATION

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.**

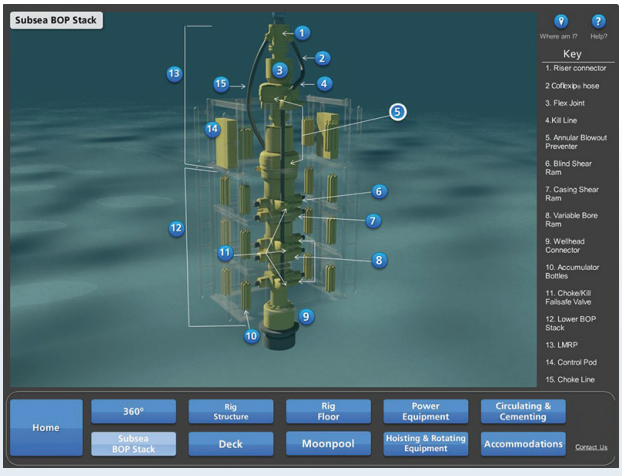
Cat. no. 96.M0310 $65

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



Interactive Offshore Oil Rig

Explore the inner workings of an offshore rig.

See full description on page 25.

DRILLING

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 $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 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 $695

DRILLING

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

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 $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 $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 $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 $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

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 $65

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 $165

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 $95

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.**

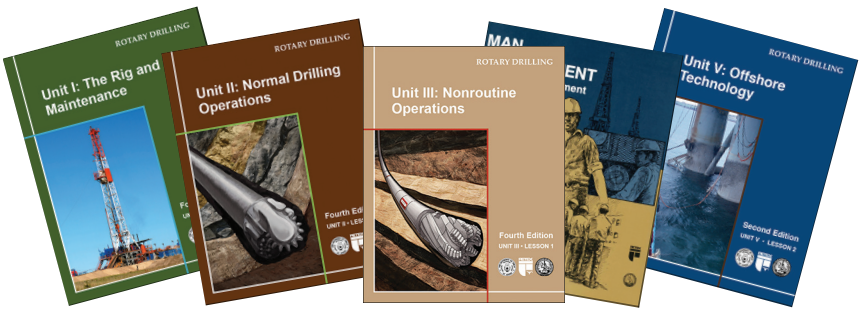
Cat. no. 92.M0210 $75

E-LEARNING MODULE

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



Rotary Drilling Series

The most complete lesson series available!

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Buy all five units (29 books) for discounted price of only $1,424!

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

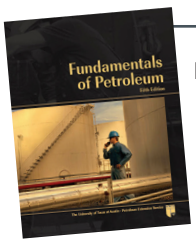
E-LEARNING MODULE

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



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).*

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 $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

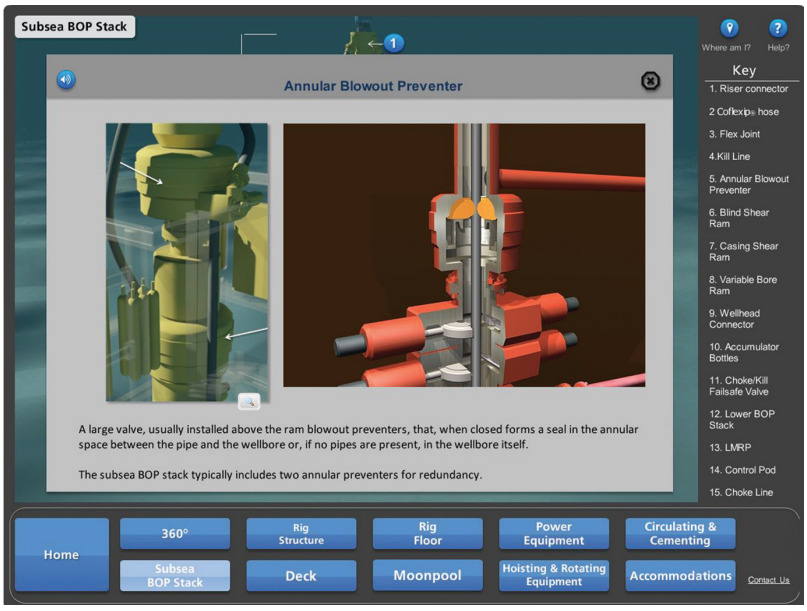
Artificial Lift

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



WELL COMPLETION AND WORKOVER

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

REFINING AND TRANSPORTATION

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.**

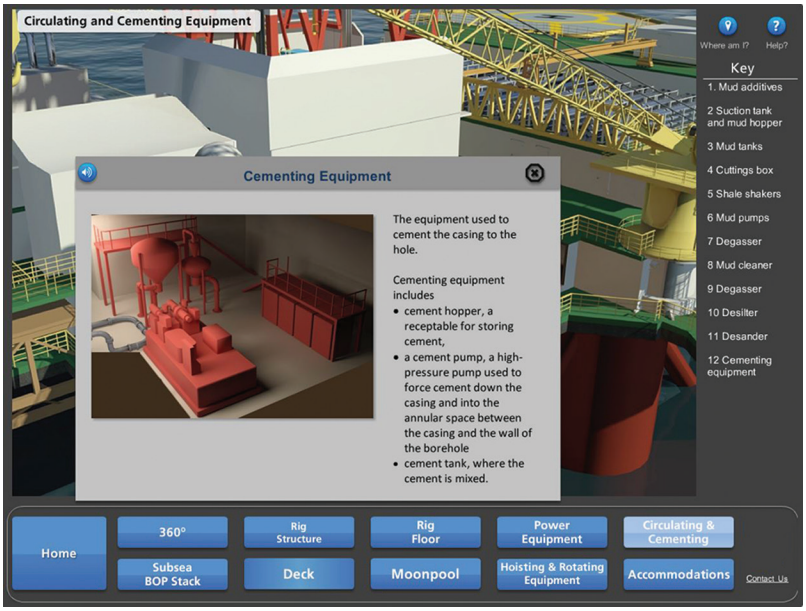
Cat. no. 95.M0110 $95

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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Series	Title	Catalog #	Price	Completion Time	Page #
General Industry	Petroleum Fundamentals e-Course (3.5 CEUs)	97.C0110	$995	35+ hr	23
	Introduction to Petroleum e-Learning Module	96.M0110	$95	75–90 min	23
	Offshore Oil and Gas Leasing e-Learning Module	96.M0610	$75	45–60 min	23
	Onshore Oil and Gas Leasing e-Learning Module	96.M0510	$75	45–60 min	23
	People and Companies e-Learning Module	96.M0710	$75	45–60 min	23
	Petroleum Economics e-Learning Module	96.M0810	$75	45–60 min	23
	Well Planning e-Learning Module	96.M0410	$50	30–35 min	23
Exploration	Formation Evaluation e-Learning Module	92.M1410	$135	90–105 min	24
	Petroleum Exploration e-Learning Module	96.M0310	$75	45–60 min	24
	Petroleum Geology e-Learning Module	96.M0210	$135	90–120 min	24
Drilling	Elementary Drilling e-Course (2.0 CEUs)	92.C0110	$595	16–20 hr	24
	Introduction to Petroleum and Drilling Systems e-Course (0.2 CEUs)	97.C0310	$99	90–135 min	24
	Oilwell Drilling Primer e-Course (2.5 CEUs)	92.C0310	$695	25 hr	24
	Controlled Directional Drilling e-Learning Module	92.M0910	$75	45–60 min	25
	Open-Hole Fishing e-Learning Module	92.M1310	$95	60–75 min	25
	Overview of Drilling Systems e-Learning Module	92.M0110	$50	45–60 min	25
	Rotary Drilling Rig Types e-Learning Module	92.M1110	$95	60–75 min	25
	Routine Drilling Operations e-Learning Module	92.M0810	$125	75–90 min	25
	Types of Wells e-Learning Module	92.M1510	$50	30–45 min	23
	Rig Components				
	Interactive Onshore Rig e-Learning Module	92.T0110	$50	30–45 min	25
	Interactive Offshore Rig e-Learning Module	92.T0210	$95	60–75 min	25
	The Circulating System e-Learning Module	92.M0510	$165	150–180 min	25
	The Hoisting System e-Learning Module	92.M0310	$95	60–90 min	25
	The Power System e-Learning Module	92.M0210	$75	45–60 min	25
	The Rotating System e-Learning Module	92.M0410	$135	90–120 min	25
Well Control	Blowout Prevention System e-Learning Module	92.M0710	$95	60–90 min	26
	Well Control e-Learning Module	96.M1210	$75	45–60 min	26
Production	Production Basics e-Course (0.8 CEUs)	93.C0110	$395	8–10 hr	26
	Improved Recovery Techniques e-Learning Module	93.M0610	$95	60–90 min	26
	Reservoir Drive Mechanisms e-Learning Module	93.M0910	$50	30–45 min	26
	Surface Handling of Well Fluids e-Learning Module	93.M0710	$95	60–75 min	26
	Artificial Lift e-Learning Module	93.M0310	$125	75–90 min	26
Well Completion & Workover	Well Completion e-Learning Module	93.M0110	$95	60–75 min	27
	Well Service and Workover e-Learning Module	93.M0810	$125	75–90 min	27
	Well Stimulation e-Learning Module	93.M0510	$75	45–60 min	27
Refining & Transportation	Refining and Processing Petroleum e-Learning Module	95.M0110	$95	75–90 min	27
	Transporting Petroleum, Petroleum Derivatives, and Natural Gas e-Learning Module	94.M0110	$95	60–75 min	27



VIDEOS

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.

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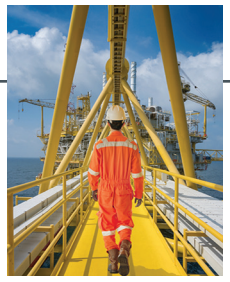
Customize any course to fit your company's needs. Our design and development team can work with you to define important learning goals to align our course materials to your company's unique training requirements. See page 14 for more information.



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.*

DRILLING

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.**

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

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.**

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 mousehole 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, 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. 65.6010: 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

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

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 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.

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

Introduction to Well Control Certificate Program

0.1 CEUs

This self-study training package includes an online assessment* (with 35 questions) and a copy of the video, *Introduction to Well Control*. Earn a Certificate of Completion from the University of Texas at Austin—PETEX when you successfully finish this program. Est. time commitment: **75 minutes + test time.**

Video + Assessment
Cat. no. 65.6080AV: DVD $238
Streaming $175

PRODUCTION

Artificial Lift

Gas Lift, Complete Set

Five films use a model with working valves and gauges to illustrate gas-lift principles realistically. Produced by Exxon Production Research Company and McMurry Oil Tools. Part of the PETEX-API Audiovisual Repository. 1984.

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*

11 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

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

Shows step-by-step how to shut in a glycol unit properly and bring it back on stream. Part of the PETEX-API Audiovisual Repository. 1991, 18 minutes, 114 slides, instructor guide, student guide, glossary.

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. P1988, 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

Examines the procedures, equipment, and safety precautions needed to gauge liquid heights in tanks. Conforms to the API *Manual of Petroleum Measurement Standards*, 1985. Sponsored by the API Committee on Petroleum Measurement. 1985, 25 minutes, 137 slides, workbook.

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

Shows a typical lease automatic custody transfer (LACT) unit and tells how each component works and its purpose. Conforms to the API *Manual of Petroleum Measurement Standards*, 1985. Sponsored by the API Committee on Petroleum Measurement. 1985, 27 minutes, 148 slides, workbook.

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

Manual Sampling of Petroleum and Petroleum Products

Describes commonly used procedures and equipment for taking manual samples according to the API *Manual of Petroleum Measurement Standards*, 1986. Sponsored by the API Committee on Petroleum Measurement. 1986, 25 minutes, 111 slides, workbook.

Slide-tape transfer on video
Cat. no. 65.2987: DVD $68
Streaming $45

Measurement of Petroleum and Petroleum Product Cargos Aboard Marine Vessels

Covers basic measurement techniques, petroleum characteristics, fundamental marine terminology, and basic vessel construction. Conforms to the API *Manual of Petroleum Measurement Standards*, 1985. Sponsored by the API Committee on Petroleum Measurement. 1987, 40 minutes, 263 slides.

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

Designed to assist personnel who must perform provings done with open tank provers. Covers recommended procedures according to the API *Manual of Petroleum Measurement Standards*, 1985. Sponsored by the API Committee on Petroleum Measurement. 1986, 28 minutes, 122 slides, workbook.

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

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

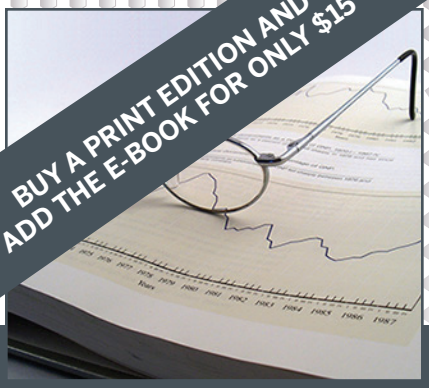
Spanish slide-tape transfer on video
Cat. no. 65.3622: DVD $30
Streaming $20

Production

Hand Injuries in Well Service and Workover Operations

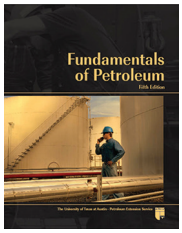
This program, like *Hand Injuries in Drilling*, gives a graphic view of dangers to the hands and shows crewmembers what they can do to prevent hand injuries. Produced in cooperation with the Association of Energy Service Companies (AESC). 1982, 17 minutes, 56 slides.

Slide-tape transfer on video
Cat. no. 65.1150: DVD $45
Streaming $30



GENERAL INDUSTRY

BESTSELLER



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The most comprehensive manual of its kind!

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Glossary terms are provided in *A Dictionary for the Oil and Gas Industry*, 2nd Edition.

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4-COLOR EDITION

Land and Leasing, 2nd ed.

For landowners, oil and gas investors, oil company employees, land professionals, and anyone interested in becoming a land professional. Authored by experienced land professionals **Dan McCue** and **Deborah Hubbs**, this updated edition explains the legal aspects of using land for mineral production, including ownership, leasing, and agreements for exploration and development. Appendices offer supplemental information on regional leasing practices and calculating interests. 2013, 224 pp.

Cat. no. 1.00120 ISBN 978-0-88698-263-8
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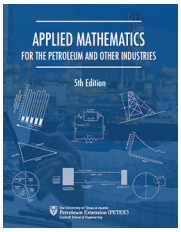
NEW EDITION



Applied Mathematics for the Petroleum and Other Industries, 5th ed.

For industry shop and field personnel who use practical mathematics on the job. Covers numbers, hand calculators, percentages and proportions, and physical quantities and measurement. Also reviews the principles of algebra, practical geometry, basic trigonometry, and advanced industry applications and includes reference tables, common formulas, and conversion factors. Each chapter includes objectives, how-to information, practice problems, and a self-test. 2019, 324 pp.

Cat. no. 1.60050 ISBN 0-88698-284-7
Print $89
E-Book $76
Print + E-Book $104

Basic Electricity for the Petroleum Industry, 2nd ed.

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.

Cat. no. 1.40020 ISBN 0-88698-109-3
Print $37
E-Book $31
Print + E-Book $52

Basic Electricity for the Petroleum Industry Workbook

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, 48 pp.

Cat. no. 1.40026 ISBN 0-88698-136-0
Print $16

Basic Electronics for the Petroleum Industry, 4th ed.

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.

Cat. no. 1.41040 ISBN 0-88698-199-9
Print $84
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Print + E-Book $99

Basic Instrumentation, 4th ed.

Developed for those who need to understand the basic principles and operation of instruments used in measuring and controlling processes. Profusely illustrated and written in an easy-to-understand manner. 2002, 326 pp.

Cat. no. 1.20040 ISBN 0-88698-197-2
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Energy policy expert **Dr. Michael E. Webber** presents a series of original insights on energy strategy and offers prescriptions for sound, rational energy policy solutions at the state, federal, and international level. In the form of a collection of published articles. 2009, 56 pp.

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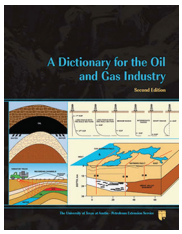
GENERAL INDUSTRY



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

A reliable resource of over 12,000 definitions of terms used throughout the oil and gas industry. Illustrated, easy to use. Includes industry associations, key government agencies, lists of common abbreviations, SI units, and metric equivalents. 2011, 336 pp.

Cat. no. 1.35020 ISBN 0-88698-240-5
Print $99
E-Book $84
Print + E-Book $114

Fundamental Principles of Gas Turbines

Straightforward explanations of how gas turbines operate, why each section and component is needed, and how to maintain turbine equipment properly. 1980, 88 pp.

Cat. no. 1.76010 ISBN 0-88698-147-6
Print $26

Fundamental Principles of Gas Turbines Workbook

Supplements *Fundamental Principles of Gas Turbines* book

Consists of three segments addressing chapters in the textbook, beginning with a list of objectives and ending with test questions. 1981, 68 pp.

Cat. no. 1.76016 ISBN 0-88698-148-4
Print $20

Petroleum Accounting: Principles, Procedures, & Issues, 7th ed.

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.

Content includes:

- New releases from SEC and FASB
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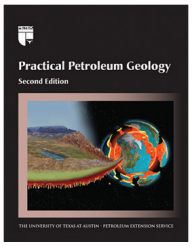
Cat. no. N1.62070 ISBN 0-94096-627-1
Print $225

EXPLORATION



Practical Petroleum Geology, 2nd ed.

From the perspective of a practicing petroleum geologist, this book describes geology in relation to the petroleum industry, discussing basic geological concepts, accumulation of hydrocarbons, exploration, economic examination, exploratory wells, and oil and gas recovery. 2014, 304 pp.

Cat. no. 1.00220 ISBN 978-0-88698-233-1
Print $76
E-Book $65
Print + E-Book $91

Practical Petroleum Geology Certificate Program

3.0 CEUs

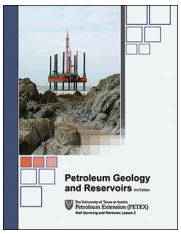
This self-study training package includes an online assessment* (with 215 questions) and a copy of *Practical Petroleum Geology* (print or e-book). Earn a Certificate of Completion from the University of Texas at Austin—PETEX when you successfully finish this program. Est. time commitment: **30 hours.**

Print Book + Assessment
Cat. no. 1.00220AP $226

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

4-COLOR EDITION

WSWO Lesson 2



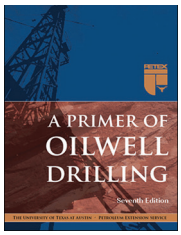
Petroleum Geology and Reservoirs, 3rd ed.

Discover how geologists help companies find oil and gas deep underground and construct wells to bring hydrocarbons to the surface. This book covers the basics of petroleum geology, subsurface exploration techniques, and production optimization. Includes full-color illustrations, 100 review questions, an index, and a glossary. 2017, 272 pp.

Cat. no. 3.70230 ISBN 978-0-88698-275-1
Print $68
E-Book $58
Print + E-Book $83

Print book or e-book option available. The e-book allows bookmarking and searching; it is also accessible for people with disabilities.

DRILLING



A Primer of Oilwell Drilling, 7th ed.

Master the Basics of Oil and Gas Drilling

Developed with the entry-level driller in mind, discover why this full-color publication remains the mainstay of the oil and gas industry. **Dr. Paul M. Bommer** of the University of Texas at Austin breaks down each facet of the upstream sector with easy-to-read text, photos of equipment, and depictions of on- and offshore rig operations. Originally developed in partnership with the International Association of Drilling Contractors (IADC), this latest edition includes a comprehensive glossary and index for quick referencing. 2008, 264 pp. Receive a 20" x 24" full-color *Rotary Rig and Its Components Poster* when you purchase this title.

Cat. no. 2.00070 ISBN 978-0-88698-227-8
Print $110
E-Book $94
Print + E-Book $125

FULL-COLOR WORKBOOK

A Primer of Oilwell Drilling Workbook

Tied to *A Primer of Oilwell Drilling*, 7th ed.

Enables training of groups within your organization. Reinforces material presented in the book to ensure comprehension of important concepts. 2009.

Cat. no. 2.00076 ISBN 0-88698-228-6
Print $35

A Primer of Oilwell Drilling Certificate Program

3.0 CEUs

This self-study training package includes an online assessment* (with 200 questions) and a copy of *A Primer of Oilwell Drilling* (print or e-book). Earn a Certificate of Completion from the University of Texas at Austin—PETEX when you successfully finish this program. Est. time commitment: **30 hours.**

Print Book + Assessment
Cat. no. 2.00070AP $260

E-Book + Assessment
Cat. no. 2.00070AE $244

Conceptos básicos de perforación, 4th ed.

Spanish translation of *A Primer of Oilwell Drilling*, 4th edition. 1979, 104 pp.

Cat. no. 2.00042 ISBN 0-88698-135-2
Print $42
E-Book $36
Print + E-Book $57

DRILLING

Drilling Technology Series, Complete Set

This special condensed series is made up of three individual books (segments) on selected material from the Rotary Drilling Series. Designed for industry personnel, petroleum technology students, and general personnel involved in rotary drilling operations. *10% off when complete set is purchased.*

Cat. no. 2.01010

Print	$279
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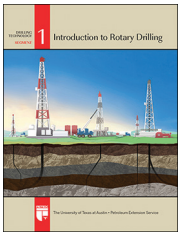
Print + E-Book	$309
Print Books + Assessments	$684
E-Books + Assessments	$642

4-COLOR EDITION

Segment 1

Introduction to Rotary Drilling, 2nd ed.



Designed for industry personnel and petroleum technology students involved in rotary drilling operations. Revised by well-known drilling expert **Dr. Robello Samuel** with colorful images and updated explanations, this book covers the fundamentals of rotary drilling with a vibrant description of the rotary rig and its components, focusing on the mud system, the drill stem, and the bit. Explains the tools, instruments, and equipment required for drilling a well. Presented in an easy-to-read manner. 2014, 240 pp.

Cat. no. 2.01120 ISBN 978-0-88698-259-1

Print	$90
E-Book	$77
Print + E-Book	$105

Introduction to Rotary Drilling Certificate Program

3.0 CEUs

This self-study training package includes an online assessment* (with 250 questions) and a copy of *Introduction to Rotary Drilling* (print or e-book). Earn a Certificate of Completion from the University of Texas at Austin—PETEX when you successfully finish this program. Est. time commitment: **30 hours.**

Print Book + Assessment
Cat. no. 2.01120AP $240

E-Book + Assessment
Cat. no. 2.01120AE $227

4-COLOR EDITION

Segment 2

Routine Drilling Operations, 2nd ed.

Describes routine operations on a drilling rig and the theory behind those operations. Contains information necessary for controlling well trajectories and examines the pieces of equipment, tools, and techniques used in the field to ensure that a hole stays on its planned path. In addition, this newly updated, full-color edition explores fishing operations and retrieval tools in great detail and looks at methods and devices used to prevent and control blowouts. Helps readers understand the procedures and calculations used in drilling fluids, hydraulics, and straight hole drilling. 2015, 304 pp.

Cat. no. 2.01220 ISBN 978-0-88698-270-6

Print	$110
E-Book	$94
Print + E-Book	$125

Routine Drilling Operations Certificate Program

3.0 CEUs

This self-study training package includes an online assessment* (with 250 questions) and a copy of *Routine Drilling Operations* (print or e-book). Earn a Certificate of Completion from the University of Texas at Austin—PETEX when you successfully finish this program. Est. time commitment: **30 hours.**

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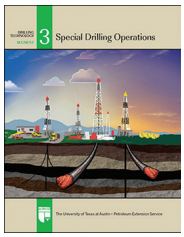
Cat. no. 2.01220AP $260

E-Book + Assessment
Cat. no. 2.01220AE $244

4-COLOR EDITION

Segment 3

Special Drilling Operations, 2nd ed.



Explores the calculations and procedures that are specific to controlled directional drilling, fishing, and blowout prevention. Aimed at industry personnel and petroleum technology students, topics include well patterns, directional surveying, survey tools, and deviated-hole complications. This book also examines the retrieval of lost and stuck equipment in open holes, well kicks, and rig installations that prevent blowouts from occurring. 2015, 256 pp.

Cat. no. 2.01320 ISBN 978-0-88698-271-3

Print	$110
E-Book	$94
Print + E-Book	$125

Special Drilling Operations Certificate Program

3.0 CEUs

This self-study training package includes an online assessment* (with 250 questions) and a copy of *Special Drilling Operations* (print or e-book). Earn a Certificate of Completion from the University of Texas at Austin—PETEX when you successfully finish this program. Est. time commitment: **30 hours.**

Print Book + Assessment
Cat. no. 2.01320AP $260

E-Book + Assessment
Cat. no. 2.01320AE $244

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.

Cat. no. 1.61020 ISBN 0-88698-221-9

Print	$21
E-Book	$18
Print + E-Book	$36

The Drilling Supervisors Guide to Understanding and Maintaining Drilling Fluids

This guide covers virtually every aspect involved in understanding and maintaining drilling fluids. It is intended to give the drilling supervisor and the on-site mud engineer a thorough understanding of drilling mud. Clay and polymer chemistry are covered in detail. Calculations for engineering and maintaining the mud are presented in a clear and simple format. 2008, Drilbert Engineering, 350 pages.

Cat. no. E2.80220 ISBN 978-0-97229-861-2
Print $125

PETEX e-books make reading easy on your personal computer, tablet, or mobile device.

DRILLING

Practical Underbalanced Drilling and Workover

Renowned drilling expert **Bill Rehm** provides a detailed view of underbalanced drilling operations with terms, calculations, and guidelines. Covers surface control and downhole equipment, circulation, the fluid column, types of drilling, corrosion, and more. Based on the IADC accreditation requirements for underbalanced drilling. 2002, 204 pp.

Cat. no. 2.60110 ISBN 0-88698-198-0
Print $68
E-Book $58
Print + E-Book $83

Principles of Drilling Fluid Control, 12th ed.

Covers common drilling mud tests, contamination problems, and resolutions. Discusses mud system equipment, lost circulation, and types of drilling fluid. Presents information on drilling mud practices in various regions of the world. Sponsored by the International Association of Drilling Contractors (IADC). 1969, 232 pp.

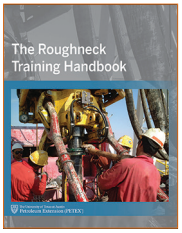
Cat. no. 2.70120 ISBN 0-88698-118-2
Print $37
E-Book $31
Print + E-Book $52

Rig Math, 3rd ed.

This book presents an easy way to learn the math used in drilling. It is a highly visual approach that makes math extremely easy and intuitive. The visual approach is analogous to using a map to plot your course, rather than relying on a list of complicated instructions. The reader will learn to reason his or her way through any well control problem without using complicated equations or a kill sheet. It covers the hierarchy of operations in equations, use of scientific calculators, multiplying fractions with words, conversion factors, elementary algebra, well control math, and practical problem solving. 2003, Drilbert Engineering, 158 pp.

Cat. no. E2.80130 ISBN 978-0-97229-863-6
Print $35

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.

Cat. no. 2.02010 ISBN 978-0-88698-274-4
Print $79
E-Book $67
Print + E-Book $94

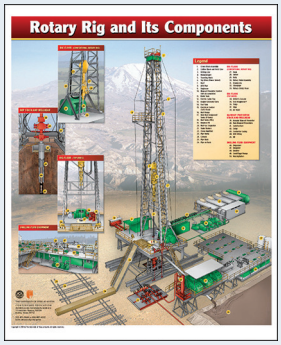
Trouble Free Drilling, 3rd ed.

This book is intended to help drilling personnel improve their understanding of the downhole mechanics of drilling. The focus of this book is the physics of stuck pipe. The mechanics of what causes stuck pipe is explained in great detail. Warning signs, preventive measures, and various freeing procedures are also discussed. 4-color, hard cover edition. 2014, Drilbert Engineering, 306 pp.

Cat. no. E2.80330 ISBN 978-0-97229-860-5
Print $125

ESSENTIAL TEACHING TOOL

The Rotary Rig and Its Components Poster



A detailed full-color, labeled illustration of the key equipment of a drilling rig. An effective instructional tool, the poster identifies key rig components. An attractive wall hanging available in four languages and suitable for framing. Print only. *Try the Interactive Online Rig Tool for an e-learning perspective on the drilling rig. Visit petex.utexas.edu/elearning/modules to demo this and our other e-learning modules.*

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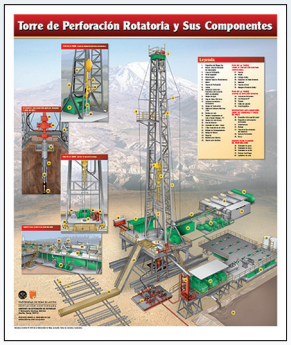

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RUSSIAN full-color poster, 20" × 24", 2009
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ISBN 0-88698-201-4

PORTUGUESE full-color poster, 20" × 24", 2013
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DRILLING

Rotary Drilling Series, Complete Set

An industry standard, this best-selling series comprises five units, each containing separately bound lessons. The units collectively cover a broad range of rotary drilling operations and technical information associated with each topic. Originally constructed in cooperation with the International Association of Drilling Contractors (IADC). Measurements are given in both U.S. and SI units. *Price includes 10% off when all five units are purchased.*

Cat. no. 2.00000
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E-Book $1,210
Print + E-Book $1,863

ROTARY DRILLING SERIES, UNIT I

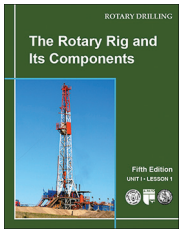
The Rig and Its Maintenance

Unit I Set: English, Lessons 1–10. *Price includes 10% off when entire unit is purchased.*

Cat. no. 2.10000
Print $470
E-Book $399
Print + E-Book $570

4-COLOR EDITION

Lesson 1



The Rotary Rig and Its Components, 5th ed.

Easy to read as it acquaints new crewmembers with equipment and procedures they will encounter as floorhands, motorhands, derrickhands, and, later, as drillers or toolpushers. Includes full-color illustrations, readability features, and review questions. 2015, 160 pp.

Cat. no. 2.10150 ISBN 978-0-88698-255-3
Print $68
E-Book $58
Print + E-Book $83

El equipo rotatorio y sus componentes, 3rd ed.
SPANISH, 1980: cat. no. 2.10132 $16
ISBN 0-88698-029-1

4-COLOR EDITION

Lesson 2

The Bit, 5th ed.

Industry expert **Mark Jordan of National Oilwell Varco** introduces readers to the different types of bits. Explains how these tools are manufactured and provides guidelines for selecting the right bit. Explores design specifications, cutting structures, drilling fluids, hydraulics, penetration rates, classification, grading, proper maintenance, and causes of bit wear. Includes more than 80 full-color images, readability features, and review questions. 2013, 184 pp.

Cat. no. 2.10250 ISBN 978-0-88698-243-X
Print $68
E-Book $58
Print + E-Book $83

La barrena, 3rd ed.
SPANISH, 1981: cat. no. 2.10232 $16
ISBN 0-88698-030-5

Lesson 3

Drill String and Drill Collars

Covers design, function, handling, care, and inspection of drill collars. Discussions also include drill pipe design, recommended sizes, grades, handling, and care. Includes illustrations, summaries, review questions, and a glossary. 1995, 120 pp.

Cat. no. 2.103101 ISBN 0-88698-168-9
Print $42
E-Book $36
Print + E-Book $57

***La barra maestra* (*The Drill Stem*)**, 2nd ed.
SPANISH, 1983: cat. no. 2.10322 $16
ISBN 0-88698-031-3

Lesson 4

Rotary, Kelly, Swivel, Tongs, and Top Drive

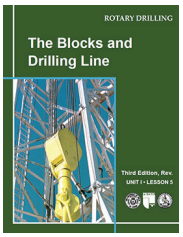
Describes the rotating components: rotary, rotary table, swivel, kelly, top drive, and related tools such as slips and tongs. Includes illustrations, summaries, review questions, and a glossary. 1995, 164 pp.

Cat. no. 2.104101 ISBN 0-88698-172-7
Print $42
E-Book $36
Print + E-Book $57

La mesa rotatoria, el cuadrante, y la unión giratoria (Rotary, Kelly, and Swivel), 2nd ed.
SPANISH, 1982: cat. no. 2.10422 $16
ISBN 0-88698-032-1

4-COLOR EDITION

Lesson 5



The Blocks and Drilling Line, 3rd ed., Revised

Deals with proper handling and maintenance of the crown and traveling blocks and the drilling line. Also covers equipment inspection procedures and programs to increase the service life of drilling lines. Includes illustrations, summaries, review questions, and a glossary. 2014, 168 pp.

Cat. no. 2.105301 ISBN 978-0-88698-170-9
Print $52
E-Book $44
Print + E-Book $67

Los bloques y el cable de perforación, 2nd ed.
SPANISH, 1982: cat. no. 2.10522 $16
ISBN 0-88698-033-X

Lesson 6

The Drawworks and the Compound

Presents detailed information on the drawworks including clutches, transmission, sprockets, drum, and brakes. Includes illustrations, summaries, review questions, and a glossary. 1995, 132 pp.

Cat. no. 2.106101 ISBN 0-88698-171-9
Print $42
E-Book $36
Print + E-Book $57

El malacate (The Hoist), 2nd ed.
SPANISH, 1984: cat. no. 2.10622 $16
ISBN 0-88698-034-8

Lesson 7

Drilling Fluids, Mud Pumps, and Conditioning Equipment

Explains the operation, care, and maintenance of mud pumps and mud conditioning equipment. Discusses composition, testing, and treatment of drilling fluids and the routing of circulation. Includes illustrations, summaries, review questions, and a glossary. 1998, 252 pp.

Cat. no. 2.107101 ISBN 0-88698-181-6
Print $47
E-Book $40
Print + E-Book $62

Sistemas de circulación (Circulating Systems), 3rd ed.
SPANISH, 1984: cat. no. 2.10832 $16
ISBN 0-88698-036-4

BEST SELLER

Lesson 8

Diesel Engines and Electric Power, 3rd ed., Revised

Provides a basic understanding of diesel engines and electric power as used on rotary drilling rigs, with emphasis on offshore applications. Includes illustrations, summaries, review questions, and a glossary. 2015, 256 pp.

Cat. no. 2.108302 ISBN 0-88698-169-7
Print $57
E-Book $48
Print + E-Book $72

Motores diesel y energía eléctrica, 2nd ed.
SPANISH, 1984: cat. no. 2.11122 $16
ISBN 0-88698-039-9

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DRILLING

4-COLOR EDITION

Lesson 9

The Auxiliaries, 3rd ed., Revised

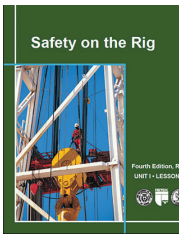
Describes auxiliary equipment for rotating, hoisting, circulating, and controlling wells. Also covers instrumentation, utilities, and tools used on the rig. Includes 4-color illustrations, summaries, review questions, and a glossary. 2014, 128 pp.

Cat. no. 2.109301 ISBN 978-0-88698-184-6
Print $52
E-Book $44
Print + E-Book $67

El equipo auxiliar, 2nd ed.

SPANISH, 1983: Cat. no. 2.10922 $16
ISBN 0-88698-037-2

4-COLOR EDITION



Lesson 10

Safety on the Rig, 4th ed., Revised

Reviews readiness and prevention of hazardous situations. Focusing on the importance of safety on any rig, this lesson covers safe transportation to and from a rig, hand- and power-tool safety, rig operations and equipment, first aid, and proper response to emergencies. Includes 4-color illustrations, summaries, review questions, and a glossary. 2014, 232 pp.

Cat. no. 2.110401 ISBN 978-0-88698-186-0
Print $52
E-Book $44
Print + E-Book $67

Seguridad en la instalación, 3rd ed.

SPANISH, 1981: cat. no. 2.11032 $16
ISBN 0-88698-038-0

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Normal Drilling Operations

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Print $235
E-Book $200
Print + E-Book $285

4-COLOR EDITION

Lesson 1

Making Hole, 3rd ed., Revised

Covers the purpose and planning of a well using different types of bits. Describes why certain bits are selected. Also covers bit wear and tear and replacing bits as well as the effects of weight and rotary speed.

Making Hole, cont.

Additional discussions focus on drilling fluid use, bit hydraulics, and formation properties, demonstrating the importance of maintaining bit performance and functionality. Includes 4-color illustrations, summaries, review questions, and a glossary. 2013, 160 pp.

Cat. no. 2.201301 ISBN 0-88698-190-5
Print $52
E-Book $44
Print + E-Book $67

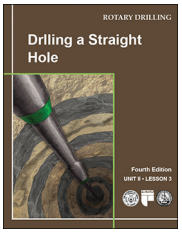
Lesson 2

Drilling Fluids

This book takes on proper circulation to aid in understanding composition, properties of mud, water-base drilling muds, oil muds, effects of air, gas, and mist drilling, and various problems that can occur. Includes illustrations, summaries, review questions, and a glossary. 2000, 212 pp.

Cat. no. 2.202101 ISBN 0-88698-189-1
Print $47
E-Book $40
Print + E-Book $62

4-COLOR EDITION



Lesson 3

Drilling a Straight Hole, 4th ed.

Describes factors affecting hole deviation and methods of control. Explains the purpose of each tool in the bottomhole assembly and emphasizes how tools are selected and assembled for maximum effectiveness. Includes illustrations, summaries, review questions, and a glossary. 2015, 160 pp.

Cat. no. 2.20340 ISBN 978-0-88698-260-7
Print $68
E-Book $58
Print + E-Book $83

Lesson 4

Casing and Cementing, 3rd ed.

Describes the concept of casing string design and procedures for properly handling pipe while it is on the rack, being picked up, made up into a string, and cemented in the hole. Covers types of pipe used and string design considerations, running techniques, cementing procedures, casing liner use, liner setting, and cement strength determination. Includes illustrations, summaries, review questions, and a glossary. 2001, 128 pp.

Cat. no. 2.20430 ISBN 0-88698-191-3
Print $42
E-Book $36
Print + E-Book $57

4-COLOR EDITION

Lesson 5

Testing and Completing, 3rd ed., Revised

Introduces rig crewmembers to well-test procedures and various completion methods and equipment that operators use to finalize a well. Also covers reservoir characteristics to help understand how formations are evaluated and how formation testing and completion are done. Includes 4-color illustrations, summaries, review questions, and a glossary. 2014, 136 pp.

Cat. no. 2.205301 ISBN 978-0-88698-192-1
Print $52
E-Book $44
Print + E-Book $67

ROTARY DRILLING SERIES, UNIT III

Nonroutine Drilling Operations

Unit III Set: English, Lessons 1–3. *Price includes 10% off when entire unit is purchased.*

Cat. no. 2.30000
Print $184
E-Book $156
Print + E-Book $229

Lesson 1

Controlled Directional Drilling, 4th ed.

This book introduces the science of deviating a well along a planned course. Directional drilling expert **João Luiz Vieira** of Halliburton shares current information about the types of directional holes, how a well is planned, the equipment and data needed, and some of the special applications and challenges associated with controlled directional drilling. Comprehensive glossary, colorful graphics, and a self-test help readers comprehend this increasingly relevant topic. 2009, 152 pp.

Cat. no. 2.30140 ISBN 978-0-88698-254-6
Print $68
E-Book $58
Print + E-Book $83

Perforación direccional controlada, 2nd ed.

SPANISH, 1979: cat. no. 2.30122 $16
ISBN 0-88698-131-X

Lesson 2

Open-Hole Fishing, 4th ed.

By fishing specialists **Jerry Fisher** and **Arthur Meeks** of Weatherford, this book provides an overview of the tools and techniques of open-hole fishing and describes basic steps in fishing out and avoiding stuck pipe or junk lost in the hole. Also

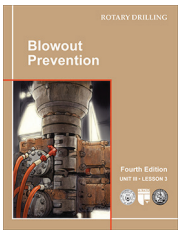
DRILLING

Open-Hole Fishing, cont.

outlines the economics of fishing. Includes colorful graphics, comprehensive summaries, and review questions. 2010, 112 pp.

Cat. no. 2.30240 ISBN 0-88698-241-3
Print $68
E-Book $58
Print + E-Book $83

Lesson 3



Blowout Prevention, 4th ed.

A team of experts from Cudd Well Control—**Timothy Bell, Daniel Eby, Jace Larrison,** and **Bhavesh Ranka**—have updated this informative book, complete with full-color graphics and the latest prevention practices. This edition focuses on the most important single consideration for crewmembers on a drilling rig—blowout prevention for both offshore and onshore environments. Readers will learn about the special equipment and definitive steps for detecting and controlling kicks. A glossary and review questions help readers check comprehension. 2009, 224 pp.

Cat. no. 2.30340 ISBN 0-88698-242-1
Print $68
E-Book $58
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ROTARY DRILLING SERIES, UNIT IV

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Lesson 1

Wind, Waves, and Weather, 3rd ed.

Describes the environmental effects of weather on rigs and personnel who work offshore. This book explores how wind and waves occur and their effects on offshore structures. Also covers the basic principles of meteorology and oceanography and how they affect offshore operations. Outlines safety procedures in severe weather and sea conditions. A glossary and review questions help readers check comprehension. 2004, 156 pp.

Cat. no. 2.50130 ISBN 0-88698-212-X
Print $58
E-Book $49
Print + E-Book $73

El viento, las olas y el estado del tiempo

SPANISH, 1982: cat. no. 2.50112 $16
ISBN 0-88698-046-1

4-COLOR EDITION

Lesson 2

Spread Mooring Systems, 2nd ed.

For all offshore personnel familiar with drilling procedures on land, this full-color book describes the important role of spread moorings in the offshore drilling industry. **Christopher Morlan**, a marine structural engineer with SBM Atlantia's Mobile Offshore Unit, offers basic historical and operational perspectives with enough technical depth to understand concepts. The text explains the main principles of mooring line behavior, anchor holding power, deployment and retrieval methods, and the specific challenges of staying on location above the well. Clearly and colorfully illustrated with a complete glossary, review questions, and answer key. 2009, 120 pp.

Cat. no. 2.50220 ISBN 978-0-88698-253-9
Print $68
E-Book $58
Print + E-Book $83

Sistemas de amarre tendido

SPANISH, 1982: cat. no. 2.50212 $16
ISBN 0-88698-045-3

Lesson 3

Buoyancy, Stability, and Trim, 2nd ed.

For entry-level barge engineers, this text defines buoyancy, stability, and trim and the role each plays in keeping floating rigs on even keel. 2004, 122 pp.

Cat. no. 2.50320 ISBN 0-88698-200-6
Print $58
E-Book $49
Print + E-Book $73

Lesson 4

Jacking Systems and Rig Moving Procedures

Provides an introduction to the different types of self-elevating offshore rigs, explaining how they are operated and transported. 1976, 52 pp.

Cat. no. 2.50410 ISBN 0-88698-072-0
Print $32
E-Book $27
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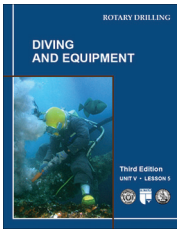
4-COLOR EDITION



Lesson 5

Diving and Equipment, 3rd ed.

Introduces nondiving personnel to the procedures and equipment used in deep-sea diving operations. Updated by diving masters **John Herren** and **Gene Lo Conte** from Epic Divers & Marine, this edition provides a visual adventure into the undersea world of the commercial diver who services offshore rigs, platforms, and pipelines. Includes vibrant photos and illustrations, and review questions. 2010, 160 pp.

Cat. no. 2.50530 ISBN 978-0-88698-238-6
Print $68
E-Book $58
Print + E-Book $83

Lesson 6

Vessel Inspection and Maintenance

Creates an awareness of the importance of maintaining the drilling unit and its equipment to prolong service and ensure safe working conditions. 1977, 38 pp.

Cat. no. 2.50610 ISBN 0-88698-074-7
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E-Book $27
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4-COLOR EDITION

Lesson 7

Helicopter Safety

Provides offshore personnel and visitors with a complete overview of routine and emergency travel safety on transport helicopters. Covers helicopter operation, helideck safety, boarding, emergency equipment, and cargo loading procedures. Also gives information about the knowledge and skills needed to react properly and survive helicopter ditching at sea.

OFFSHORE

Helicopter Safety, cont.

Readers will learn crash and rescue procedures and understand what happens during underwater abandonment and rescue. Includes numerous full-color illustrations, summaries, review questions, and a glossary. 2007, 120 pp.

Cat. no. 2.507101	ISBN 0-88698-219-7
Print	$68
E-Book	$58
Print + E-Book	$83

Lesson 8

Orientation for Offshore Crane Operations, 2nd ed.

Acquaints offshore personnel with the parts and functions of pedestal cranes, including prime movers and transmissions. Discusses wire rope and slings, safe load rigging and handling, safe hoisting procedures, and hand signals. 1997, 80 pp.

Cat. no. 2.50820	ISBN 0-88698-179-4
Print	$42
E-Book	$36
Print + E-Book	$57

4-COLOR EDITION

Lesson 9

Life Offshore, 2nd ed.

Provides a comprehensive look at offshore facilities, work conditions, travel, and personal living conditions for new employees working offshore. Focuses on the global industry of offshore operations that relies on modern technology and drilling methods, understanding that living offshore remains a great challenge. Helps personnel become settled in their temporary offshore homes. Includes comprehensive summaries, and review questions. 2008, 92 pp.

Cat. no. 2.50920	ISBN 978-0-88698-220-1
Print	$53
E-Book	$45
Print + E-Book	$68

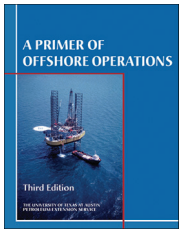
Lesson 10

Marine Riser Systems and Subsea Blowout Preventers

Describes marine riser systems and subsea blowout preventers—how they operate, how they are used, and how to install them—on typical offshore floating rigs and explains the principles of basic well control. 2003, 204 pp.

Cat. no. 2.51010	ISBN 0-88698-188-3
Print	$79
E-Book	$67
Print + E-Book	$94

A Primer of Offshore Operations, 3rd ed.



Describes the techniques and equipment used around the world, focusing on exploration, drilling, production, workover, and transportation. Ideal for anyone seeking fundamental information about offshore oil and gas operations. 1998, 132 pp.

Cat. no. 1.10030	ISBN 0-88698-178-6
Print	$68
E-Book	$58
Print + E-Book	$83

Comprehensive Stability

Designed for offshore marine personnel working on jackups, semisubmersibles, and other MODUs. Teaches vessel stability concepts and covers onboard calculations, draft, hydrostatic properties, free surface effect, inclining experiment, center of gravity, center of buoyancy, and metacenter theory. Content meets standards required by IMO resolution A.891(21) of Comprehensive Stability Training. 2005, 152 pp.

Cat. no. 1.11010	ISBN 0-88698-214-6
Print	$68
E-Book	$58
Print + E-Book	$83

Advanced Stability

For offshore drilling marine personnel such as master, mate, OIM, barge supervisor, and barge control operator. Covers the theory of stability up to and above the standard required by IMO resolution A.891(21). Topics include units of measurement, environmental forces, mooring systems, and ballast system, stability calculations, and construction design. (Recommended prerequisite: *Comprehensive Stability*) 2006, 136 pp.

Cat. no. 1.12010	ISBN 0-88698-215-4
Print	$68
E-Book	$58
Print + E-Book	$83

Offshore Well Construction

For offshore drilling field personnel such as drillers, toolpushers, rig managers, and drilling engineers. Covers the complex process of evaluating and developing oil and gas reserves and the different disciplines involved. Discusses formation evaluation, rig equipment sizing, drilling problems, advanced drilling techniques, completion equipment, and other key topics. 2005, 288 pp.

Cat. no. 1.13010	ISBN 0-88698-216-2
Print	$68
E-Book	$58
Print + E-Book	$83

WELL CONTROL

Introduction to Well Control, 2nd ed.

Assists drilling crews with the basics of well control, taking a rig hand through fundamentals beginning with pressure concepts and moving through kick warning signs and blowout prevention. 1999, 112 pp.

Cat. no. 5.10020	ISBN 0-88698-185-9
Print	$52
E-Book	$44
Print + E-Book	$67

Practical Well Control, 4th ed.

This book supports the International Association of Drilling Contractors (IADC) accreditation requirements. Includes hydrogen sulfide procedures, capacity tables, formulas for well-control calculations, and cross-references to regulations. 1998, 352 pp.

Cat. no. 2.80040	ISBN 0-88698-183-2
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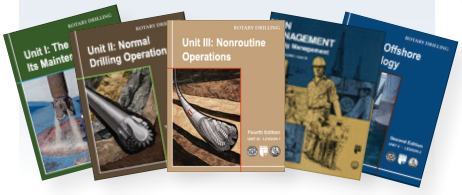
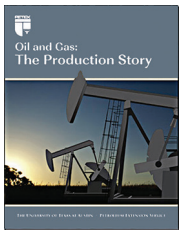


PUBLICATIONS

PRODUCTION



BEST SELLER

Oil and Gas: The Production Story, 2nd ed.

Tells the complete story of oil and gas from origin through production and distribution. Covers geology, exploration, drilling, reservoir drive mechanisms, artificial lift, testing, measurement, storage, and sale. Serves as a solid introduction to the PETEX Oil and Gas Production Series (see pg. 45). Also includes *An Oil Lease and Its Components* poster. 2008, 150 pp.

Cat. no. 3.90020 ISBN 978-0-88698-225-6
Print $80
E-Book $68
Print + E-Book $95

FULL-COLOR POSTER

An Oil Lease and Its Components Poster

Suitable for framing and shipped in a mailing tube, this full-color perspective drawing identifies components of a typical lease site and indicates fluid flow paths. A valuable aid for anyone wanting an overall illustrated view of a typical lease and bonus explanations of typical lease components. 2008, 32″ × 21″.

Cat. no. 3.90120 ISBN 0-88698-226-X
Print $37

Petroleum Production Operations

For lease operators and supervisors, this book covers well performance evaluation, primary cementing, perforating, squeeze cementing, packer and tubing forces, problem well analysis, workover methods and planning, and beam pumping. 1986, 172 pp.

Cat. no. 3.90210 ISBN 0-88698-124-7
Print $37

Treating Oilfield Emulsions, 4th ed.

Covers emulsion theory, treating methods, treating equipment, cost control, and conservation of fuel and light ends. Also presents sampling and testing methods for sediment and water content. 1990, 116 pp.

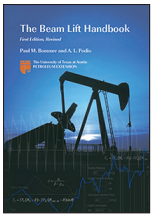
Cat. no. 3.50040 ISBN 0-88698-137-9
Print $42
E-Book $36
Print + E-Book $57

Artificial Lift

Acoustic Fluid Level Measurements in Oil and Gas Wells Handbook

A comprehensive technical handbook that discusses the importance, application, and interpretation of acoustic fluid level measurements for all types of wells and measurement instrumentation, ranging from strip charts to digital sensors. Using extensive graphics, numerous example records and reports, and mathematical equations for sound waves, ideal gas properties, and gas or liquid flow rate, authors **Dr. A.L. Podio** and **Jim McCoy** describe a versatile, accurate, and cost-effective means of assessing and optimizing well performance and production. Also includes a discussion on equipment, best practices, and procedures for acquiring acoustic fluid level records in wells. Contains a detailed glossary and index. 2018, 372.

Cat. no. 3.14010
Print $120
E-Book $102
Print + E-Book $135



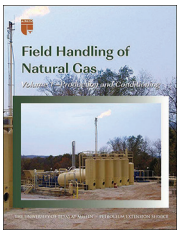
REVISED EDITION

The Beam Lift Handbook, Revised

A comprehensive book that serves as both a field handbook and a textbook. Authors **Dr. Paul M. Bommer** and **Dr. A. L. Podio** of The University of Texas at Austin have outlined the goals and best practices for production beam lift systems. Using extensive graphics, illustrations, and mathematical equations, this one-of-a-kind technical manual fully covers the important aspects of beam lift systems and potential complications in daily operations. Includes a detailed glossary and index. 2015, 624 pp.

Cat. no. 3.130101 ISBN 978-0-88698-257-7
Print $120
E-Book $102
Print + E-Book $135

Natural Gas



Field Handling of Natural Gas, Vol. 1: Production and Conditioning

Natural gas is considered an important and abundant source of clean energy. Gas facilities operated in the field are mainly used to condition the gas to make it marketable or to prepare it for further processing. These field facilities remove impurities, water, and excess hydrocarbon liquids.

Learn the basics of natural gas production and conditioning in a clear and easy-to-understand format. Industry experts **J.C. Kuo** and **Dr. Pervaiz Nasir** demonstrate how natural gas is transforming the future of energy. Includes full-color illustrations, photos, special reader features, a glossary, and index. ***Note:*** *This book comprises updated, expanded content for the first six chapters of the original book, Field Handling of Natural Gas. It is meant for those who require deeper study of production and conditioning topics.* 2014, 192 pp.

Cat. no. 3.100101 ISBN 978-0-88698-222-5
Print $69
E-Book $59
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FULL-COLOR WORKBOOK

Field Handling of Natural Gas, Vol. 1: Production and Conditioning Workbook

Supplements *Field Handling of Natural Gas, Vol. 1: Production and Conditioning*

Designed to help the learner understand and retain the material covered in the book. Learning objectives are stated and comprehensive self-study questions cover the main points in each chapter. 2018, 56 pp.

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PRODUCTION

Field Handling of Natural Gas, 4th ed.

Covers natural gas production, natural gas and liquid separation, hydrates, dehydration of natural gas, and miscellaneous gas conditioning. Discusses compressors and prime movers, instruments and controls, and measurement of natural gas and gas liquids. 1987, 192 pp.

Cat. no. 3.10040 ISBN 0-88698-127-1
Print $42
E-Book $36
Print + E-Book $57

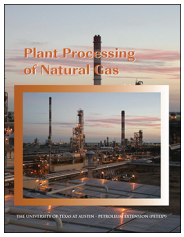
Field Handling of Natural Gas Workbook

Supplements *Field Handling of Natural Gas*, 4th ed.

Divided into three segments, each with learning objectives and review questions. 1988, 46 pp.

Cat. no. 3.10046 ISBN 0-88698-182-4
Print $26

FULL-COLOR EDITION



Plant Processing of Natural Gas, 2nd ed.

Written by industry experts **Dr. Doug Elliot, J.C. Kuo,** and **Dr. Pervaiz Nasir**, this manual covers gas fundamentals, absorption, fractionation, dehydration, mercury removal, instrumentation, cryogenic liquefaction, nitrogen recovery, nitrogen rejection, gas and product treating, and sulfur recovery. 2008, 208 pp.

Cat. no. 3.11020 ISBN 978-0-88698-223-2
Print $79
E-Book $67
Print + E-Book $94

FULL-COLOR WORKBOOK

Plant Processing of Natural Gas Workbook

Supplements *Plant Processing of Natural Gas, 2nd ed.*

Designed to help the learner understand and retain the material covered in the book. Learning objectives are stated and comprehensive self-study questions cover the main points in each chapter. 2019, 56 pp.

Cat. no. 3.100116 ISBN 0-88698-222-7
Print $30

Plant Processing of Natural Gas Certificate Program

3.0 CEUs

This self-study training package includes an online assessment* (with 150 questions) and a copy of *Plant Processing of Natural Gas* (print or e-book). Earn a Certificate of Completion from The University of Texas—PETEX when you successfully finish this program. Est. time commitment: **30 hours.**

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Cat. no. 3.11020AP $229

E-Book + Assessment
Cat. no. 3.11020AE $217

Liquefied Natural Gas

LNG: Basics of Liquefied Natural Gas

Covers the liquefaction process, storage, transportation, and major equipment used in the manufacture of liquefied natural gas (LNG). Bridges the gap between public perceptions and industrial realities. Authored by LNG industry experts **Dr. Stanley Huang** and **Dr. Chen-Hwa Chiu** of Chevron Technology and **Dr. Doug Elliot** of Bechtel Corporation, who contributed both technical and hands-on experience to create this unique reference manual. 2007, 160 pp.

Cat. no. 3.12010 ISBN 0-88698-217-0
Print $100
E-Book $85
Print + E-Book $115

Oil and Gas Production Series, Complete Set

This series was reviewed by the subcommittee of the American Petroleum Institute (API) Advisory Committee for the School of Production Technology. *10% off when complete set is purchased.*

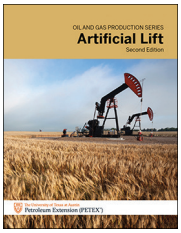
Cat. no. 3.30010
Print $394

Analysis for Well Completion

Surveys standard analysis of several types of oilfield data affecting well completion. Describes the characteristics of reservoirs and their fluids, explains methods for gathering data on those characteristics, and discusses ways in which the data is interpreted. 1984, 108 pp.

Cat. no. 3.31110 ISBN 0-88698-084-4
Print $37

FULL-COLOR EDITION



Artificial Lift, 2nd ed.

Explore artificial lift technology with industry expert **Norman W. Hein, Jr.** Topics include sucker rod pumping, gas and plunger lift, hydraulic pumping, and electric submersible pumping. To support visual learning, this book includes dozens of color photos and illustrations of equipment and procedures. Includes 50 review questions, plus an index and glossary for quick referencing. 2016, 136 pp.

Cat. no. 3.31220 ISBN 978-0-88698-236-2
Print $68
E-Book $58
Print + E-Book $83

Beam Pumping

A concentrated study of the most-used form of artificial lift—beam pumping. Organized according to three major areas: surface equipment, subsurface equipment, and pumping installation and design. 1986, 116 pp.

Cat. no. 3.31310 ISBN 0-88698-123-9
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E-Book $31
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Cased-Hole Logging

Introduces logging procedures used in cased wells. Provides background information on radioactivity and atomic theory as it relates to cased-hole logging. Describes various types of radioactivity logs and their uses in cased-hole logging. 1981, 88 pp.

Cat. no. 3.30510 ISBN 0-88698-107-7
Print $37

Coring and Core Analysis

Describes coring operations and methods of core preservation, sampling, and preparation for analysis. Also covers core analysis including determining porosity, permeability, and saturation. 1984, 80 pp.

Cat. no. 3.30910 ISBN 0-88698-041-0
Print $37

Corrosion Control

Provides a basic understanding of the corrosion process and how to manage corrosion. Describes some common corroding agents and methods of detecting, measuring, and controlling corrosion, with special emphasis on cathodic protection. 1982, 88 pp.

Cat. no. 3.30110 ISBN 0-88698-110-7
Print $37

PRODUCTION

Improved Recovery

Describes the role of subsurface processes in U.S. oil production and provides a nontechnical description of improved recovery methods that displace oil. Introduces four recovery methods—waterflooding, gas injection, chemical flooding, and thermal recovery—and evaluates their development and use. 1983, 134 pp.

Cat. no. 3.30810	ISBN 0-88698-044-5
Print	$37
E-Book	$31
Print + E-Book	$52

Open-Hole Logging

Introduces open-hole logging procedures, beginning with basic rock properties and radioactivity principles as they relate to open-hole logging. Describes various types of electrical, acoustic, and radioactive surveys used in open-hole logging. 1981, 100 pp.

Cat. no. 3.30410	ISBN 0-88698-108-5
Print	$37

Reciprocating Gas Compressors

Gives basic information on compressor systems, prime movers, and safety and auxiliary equipment. Includes calculations for determining piston displacement, compression ratio, clearance volume, volumetric efficiency, horsepower requirements, cylinder capacity, and rod load. 1982, 116 pp.

Cat. no. 3.30210	ISBN 0-88698-119-0
Print	$37
E-Book	$31
Print + E-Book	$52

Well Cementing

Describes primary and secondary cementing procedures and considerations in selecting and mixing cement for a particular job. Covers additives, special cements, and cementing equipment. 1983, 82 pp.

Cat. no. 3.30610	ISBN 0-88698-112-3
Print	$37

Wireline Operations

Provides basic information about wireline operations from development through maintenance. Describes wireline equipment, diagnostic and troubleshooting operations, and completion and production maintenance operations. 1984, 92 pp.

Cat. no. 3.31010	ISBN 0-88698-043-7
Print	$37

MEASUREMENT, CONTROL, AND STORAGE

Primer of Oil and Gas Measurement

Introduces the basic procedures, standards, and instruments used in measurement. A reliable reference for new workers and a solid resource for all industry professionals. Produced in cooperation with the American Petroleum Institute (API). 1993, 184 pp.

Cat. no. 8.20010	ISBN 0-88698-160-0
Print	$53
E-Book	$45
Print + E-Book	$68

Primer of Oil and Gas Measurement Workbook

Supplements *Primer of Oil and Gas Measurement*

Reinforces information presented in the *Primer of Oil and Gas Measurement* with lessons, a vocabulary list, and a set of questions. Answer sheets are included in the workbook, but can be omitted. 1994, 80 pp.

Cat. no. 8.20016	ISBN 0-88698-173-5
Print	$26

Quick Reference for Oil and Gas Measurement

Pocket-sized handbook with helpful information to perform measurement tasks. Addresses the special requirements of oil and gas measurement and includes mathematic symbols and signs, measurement abbreviations, numerical prefixes, international system of units (SI), conversion tables, temperature conversion in degrees, and API gravity conversions. 2007, 32 pp.

Cat. no. 8.20020	ISBN 0-88698-218-9
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Print + E-Book	$36

Gas and Liquid Measurement

Covers fundamentals, head and turbine meters, and other types of meters, focusing on orifice devices for measuring gas flow rate. Includes auxiliary equipment, sampling, mass measurement, gas contracts, and unaccounted-for gas. 1993, 184 pp.

Cat. no. 8.20110	ISBN 0-88698-161-1
Print	$63
E-Book	$54
Print + E-Book	$78

WELL COMPLETION AND WORKOVER

A Primer of Oilwell Service, Workover, and Completion

Covers reservoir drive mechanisms, completion methods, artificial lift, well servicing equipment, fishing, and workover techniques. 1997, 172 pp.

Cat. no. 3.60110 ISBN 0-88698-175-1
Print $58
E-Book $49
Print + E-Book $73

Well Servicing and Workover Series, Complete Set

This series is made up of twelve lessons (separate books) designed to provide valuable information on various operations performed on a producing oilwell to restore production.

Set of Lessons 1–12. *Price includes 10% off when entire unit is purchased.*

Cat. no. 3.70000
Print $405

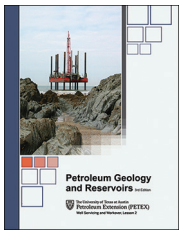
Lesson 1

Introduction to Oilwell Service and Workover, 2nd ed.

Introduces the subject of oilwell service and workover to new workers to aid in understanding well servicing operations and the impact on oilwell production. 1991, 116 pp.

Cat. no. 3.70120 ISBN 0-88698-150-6
Print $37

4-COLOR EDITION



Lesson 2

Petroleum Geology and Reservoirs, 3rd ed.

Discover how geologists help companies find oil and gas deep underground and construct wells to bring hydrocarbons to the surface. This book covers the basics of petroleum geology, subsurface exploration techniques, and production optimization. Includes full-color illustrations, 100 review questions, an index, and a glossary. 2016, 272 pp.

Cat. no. 3.70230 ISBN 978-0-88698-275-1
Print $68
E-Book $58
Print + E-Book $83

Lesson 3

Well Logging Methods, 2nd ed.

Presents logging procedures used to drill or work over an oil or gas well. Reviews the development of electric and nuclear logs. 1991, 54 pp.

Cat. no. 3.70320 ISBN 0-88698-151-4
Print $37

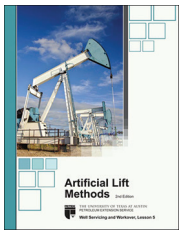
Lesson 4

Well Completion Methods

Explains various completion methods and types of equipment. Reviews procedures used to bring in an oilwell. 1971, 52 pp.

Cat. no. 3.70410 ISBN 0-88698-060-7
Print $26

4-COLOR EDITION



Lesson 5

Artificial Lift Methods, 2nd ed.

Author and artificial lift expert **William Lane** provides a current overview of lift technologies as a starting point for understanding artificial lift. Focuses on concepts more than performance envelopes as technological advancements continue. Even with new technologies, the concepts presented in this book will remain the foundation for the lift industry and the keys to providing energy for future generations. Covers the means of supplementing reservoir energy to raise fluids to the surface after a well ceases to flow. Because the vast majority of the hundreds of thousands of oilwells in the United States are produced by artificial lift, the practice must be made as efficient and reliable as possible. Fully illustrated with a glossary and index included. Self-test review questions help readers fully understand this subject. 2013, 184 pp.

Cat. no. 3.70520 ISBN 978-0-88698-258-4
Print $68
E-Book $58
Print + E-Book $83

Lesson 6

Production Rig Equipment

Covers production rig equipment and the machinery required to repair oil and gas wells on artificial lift and recondition them so they can continue producing. 1971, 48 pp.

Cat. no. 3.70610 ISBN 0-88698-062-3
Print $26

Lesson 7

Well Servicing and Repair

Discusses pump maintenance, repair of parted rods, gas-lift repairs, tubing repairs, swabbing, and packer replacements for oilwell production. 1980, 68 pp.

Cat. no. 3.70710 ISBN 0-88698-063-1
Print $26

Lesson 8

Well Cleanout and Repair Methods

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Explains and illustrates indications of a kick, methods of obtaining control, and types of blowout preventer equipment for servicing and workover jobs. 1971, 40 pp.

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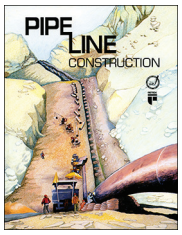

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