



## UT Austin Petroleum Extension (**PETEX**) e-learning resources

**Online Modules** – Topic-based self-directed learning objects focused on specific upstream, midstream, and downstream sectors.

- GENERAL E-LEARNING MODULES
  - [Introduction to Petroleum](#)
  - [Offshore Oil and Gas Leasing](#)
  - [Onshore Oil and Gas Leasing](#)
  - [People and Companies](#)
  - [Petroleum Economics](#)
  - [Well Planning](#)
- EXPLORATION E-LEARNING MODULES
  - [Formation Evaluation](#)
  - [Petroleum Exploration](#)
  - [Petroleum Geology](#)
- DRILLING E-LEARNING MODULES
  - [Controlled Directional Drilling](#)
  - [Interactive Offshore Rig](#)
  - [Interactive Onshore Rig](#)
  - [Open-Hole Fishing](#)
  - [Overview of Drilling Systems](#)
  - [Rotary Drilling Rig Types](#)
  - [Routine Drilling Operations](#)
  - [The Circulating System](#)
  - [The Hoisting System](#)
  - [The Power System](#)
  - [The Rotating System](#)
  - [Types of Wells](#)
- WELL CONTROL E-LEARNING MODULES
  - [Blowout Prevention System](#)
  - [Well Control](#)
- PRODUCTION E-LEARNING MODULES
  - [Artificial Lift](#)
  - [Improved Recovery Techniques](#)
  - [Reservoir Drive Mechanisms](#)
  - [Surface Handling of Well Fluids](#)
- WELL COMPLETION AND WORKOVER E-LEARNING MODULES
  - [Well Completion](#)
  - [Well Service And Workover](#)
  - [Well Stimulation](#)
- REFINING AND TRANSPORTATION E-LEARNING MODULES
  - [Refining and Processing Petroleum](#)
  - [Transporting Petroleum, Petroleum Derivatives, and Natural Gas](#)

**E-Learning Courses** - E-Courses are collections of modules related by topic that give a broader understanding of an area of the industry.

- [Elementary Drilling E-Course](#)



- [Introduction to Petroleum and Overview of Drilling Systems E-Course](#)
- [Petroleum Fundamentals E-Course](#)
- [Oilwell Drilling Primer E-Course](#)
- [Production Basics E-Course](#)

**E-Books** – PETEX’s industry standard reference and education/training publications. Links to each title can be located on the PETEX website - <https://petex.utexas.edu/publications/books/all-books>

- A Dictionary for the Oil and Gas Industry, Second Edition
- Acoustic Fluid Level Measurement in Oil and Gas Wells, First Edition
- Advanced Stability, First Edition
- Applied Mathematics: For the Petroleum and Other Industries, 5th Edition
- Arithmetic for Rig Personnel, 2nd Edition
- Artificial Lift Methods, Second Edition
- Artificial Lift, Second Edition
- The Auxiliaries, Third Edition
- Basic Electricity for the Petroleum Industry, Second Edition
- Basic Electronics for the Petroleum Industry, Fourth Edition
- Basic Instrumentation, Fourth Edition
- The Beam Lift Handbook, 1st Edition, Revised
- Beam Pumping, First Edition
- The Bit, 5th Edition
- The Blocks and Drilling Line, 3rd Edition
- Blowout Prevention, Fourth Edition
- Buoyancy, Stability, Second Edition
- Casing and Cementing, Third Edition
- Changing the Way America Thinks About Energy, First Edition
- Comprehensive Stability, First Edition
- Conceptos Básicos de Perforación, First Edition
- Control of Formation Pressure, First Edition
- Controlled Directional Drilling, Fourth Edition
- Diesel Engines and Electric Power, Third Edition
- Diving and Equipment, Third Edition
- The Drawworks and the Compound, 1st Edition
- Drill String and Drill Collars, First Edition
- Drilling a Straight Hole, Fourth Edition
- Drilling Fluids, First Edition
- Drilling Fluids, Mud Pumps, and Conditioning Equipment, First Edition
- Field Handling of Natural Gas Vol 1-Production and Conditioning
- Field Handling of Natural Gas, Fourth Edition
- Fundamentals of Petroleum, Fifth Edition
- Gas and Liquid Measurement, First Edition
- H<sub>2</sub>S Safety Handbook, Second Edition
- Helicopter Safety, First Edition
- Improved Recovery, First Edition
- Introduction to Rotary Drilling, Second Edition
- Introduction to Well Control, Second Edition



- Jacking Systems and Rig Moving Procedures, First Edition
- Land and Leasing, Second Edition
- Life Offshore, Second Edition
- LNG: Basics of Liquefied Natural Gas, First Edition
- Making Hole, Third Edition
- Man Management and Rig Management, First Edition
- Marine Riser Systems and Subsea Blowout Preventers, First Edition
- Offshore Well Construction, First Edition
- Oil and Gas: The Production Story, Second Edition
- Open-Hole Fishing, Fourth Edition
- Orientation for Offshore Crane Operations, Second Edition
- Petroleum Geology and Reservoirs, Third Edition
- Plant Processing of Natural Gas, Second Edition
- Practical Petroleum Geology, Second Edition
- Practical Underbalanced Drilling and Workover, First Edition
- Practical Well Control, Fourth Edition
- A Primer of Offshore Operations, Third Edition
- Primer of Oil and Gas Measurement, First Edition
- A Primer of Oilwell Drilling, Seventh Edition
- A Primer of Oilwell Service, Workover, and Completion, First Edition
- Principles of Drilling Fluid Control, Twelfth Edition
- Quick Reference For Oil & Gas Measurement, First Edition
- Reciprocating Gas Compressors, First Edition
- Rotary, Kelly, Swivel, Tongs, and Top Drive, 1st Edition
- The Rotary Rig and Its Components, 5th Edition
- The Roughneck Training Handbook, 1st Edition
- Routine Drilling Operations, 2nd Edition
- Safety on the Rig, 4th Edition
- Special Drilling Operations, 2nd Edition
- Spread Mooring Systems, 2nd Edition
- Testing and Completing, 3rd Edition
- Treating Oilfield Emulsions, 4th Edition
- Vessel Inspection and Maintenance, 1st Edition
- Well Control for Completion and Workover, 1st Edition
- Well Logging Methods, 2nd Edition
- Well Stimulation Treatments, 2nd Edition
- Wind, Waves, and Weather, Third Edition

#### **E-Book + Assessment Certificate Program**

- [A Primer of Oilwell Drilling Certificate Program](#)
- [Drilling Technology Certificate Program](#)
- [Field Handling of Natural Gas, Volume 1—Production and Conditioning Certificate Program](#)
- [Fundamentals of Petroleum Certificate Program](#)
- [Fundamentals of Petroleum Certificate Program Part 1: Exploration](#)
- [Fundamentals of Petroleum Certificate Program Part 2: Drilling](#)



- [Fundamentals of Petroleum Certificate Program Part 3: Production](#)
- [Fundamentals of Petroleum Certificate Program Part 4: Transportation and Refining](#)
- [Fundamentals of Petroleum Certificate Program Part 5: The Changing Market](#)
- [Introduction to Rotary Drilling Certificate Program](#)
- [Land and Leasing Certificate Program](#)
- [Plant Processing of Natural Gas Certificate Program](#)
- [Practical Petroleum Geology Certificate Program](#)
- [Routine Drilling Operations Certificate Program](#)
- [Special Drilling Operations Certificate Program](#)

**Video + Assessment Certificate Program**

- [Introduction to Well Control Certificate Program](#)
- [Makin' Hole: How Oilwells are Drilled Certificate Program](#)
- [So You Want to Be a Roughneck? Certificate Program](#)