

**In just three days,** you will learn the fundamentals and language of petroleum exploration, drilling, and production . . . and have fun doing it!

This understanding of the oil and gas industry will enable you to communicate more efficiently and perform your job more effectively.

You will be introduced to exploration techniques and tools that geologists and geophysicists use, such as correlation, mapping, and seismic.

Dr. Norman J. Hyne, the instructor, will explain the methods used to drill, test, and complete a well, and how the gas and oil are produced.

You will work with samples of geological and engineering materials, plus you will learn to identify common rocks and minerals using various different hands-on methods.

Exercises throughout the course provide practical experience with well correlation, well log interpretation, subsurface map interpretation, and seismic interpretation. You will actually locate where to drill a well on the map you correlated!

You will hear stories throughout the program of many famous (and not so famous) oil and gas professionals, which helps bring the industry to life.

## Your Instructor

**Dr. Norman J. Hyne**, is a Certified Petroleum Geologist and President of NJH Energy. He joined The University of Tulsa's Geosciences Department in 1969, became the Department Head in the late 1970s and is now Professor of Petroleum Geology in TU's Continuing Engineering & Science Education Department.

He received his geology degrees from Pomona College (B.A.), Florida State University (M.S.), and the University of Southern California (Ph.D.). Norm is a frequent contributor to professional publications, as well as the author of several books on petroleum geology and exploration. He is a member of SPE, AAPG, GSA, SEG, the Tulsa Geological Society and The Explorer's Club.

## Walk Away Knowing . . .

1. The basic processes in the formation of rocks and petroleum.
2. The occurrence, distribution, and nature of oil and gas.
3. The use of geological and seismic data in petroleum exploration.
4. How to explore for oil and gas.
5. How to drill and complete a well
6. How to qualitatively interpret well logs.
7. How to produce petroleum and calculate reserves.

# Basic Petroleum Geology for the Non-Geologist

*This course is well illustrated, with more than 1,100 slides and hands-on examples such as a drill bit and samples of different crude oils.*

## Program Content

- What are gas and oil?
- The earth's crust
- Where we find oil and gas
- Hands-on identification of common rocks and minerals
- Deformation of the earth's crust
- How petroleum traps are formed
- Geological time and its importance
- Petroleum reservoirs formed by sandstone
- Petroleum reservoirs formed by limestone
- How sedimentary rock depositional patterns are used to find oil
- The different types of maps used to find petroleum
- Ocean environment and plate tectonics
  - An explanation of mountains, trenches, volcanoes, earthquakes, and Middle Eastern oil fields
- Generation, migration, and accumulation of petroleum
- The characteristics of petroleum traps
- Petroleum exploration using geological methods and seismic
- Drilling a well (the equipment, the methods, drilling problems and techniques)
- Evaluating a well
  - Well logging
- Completing a well
  - The equipment
- Petroleum production, well stimulation, and enhanced oil recovery

## Who Should Attend

Do you need an overall perspective of petroleum exploration, drilling, and production in order to be more productive at your job? **If so, this seminar is for you!**

Past participants have included managers, accountants, landmen, draftsmen, attorneys, secretaries and clerks, geological and geophysical technicians, investors, petroleum service personnel, petroleum banking and financial ventures personnel, business administrators and executives, human resources personnel, geophysicists without geological training, computer programmers, economists, and engineers.

## You Will Receive . . .

- Course materials and hand-outs specially prepared for this program.
- Norm Hyne's book, "Nontechnical Guide to Petroleum Geology, Exploration, Drilling and Production"
- Common rock and mineral kit
- Petroleum glossary
- Wallet card listing the geological times and various map symbols
- Four wall charts: Petroleum Basin Map of the United States, Drilling and Production Rig Component Diagram, Well Log Response Chart, Oil and Gas Field Classifier
- University of Tulsa, CESE, Certificate of Completion

## Dates, Times, and Locations

The seminar meets from 8:15 a.m. to 4:30 p.m. each day.

### March 13-15, 2012 • Oklahoma City, OK

Skirvin Hilton Hotel, One Park Avenue, 405-272-3040

### April 17-19, 2012 • Houston, TX

Renaissance Houston Hotel, 6 Greenway Plaza East, 713-629-1200

### June 19-21, 2012 • Denver, CO

Marriott Tech Center, 4900 S. Syracuse St., 303-779-1100

### August 21-23, 2012 • Houston, TX

Renaissance Houston Hotel, 6 Greenway Plaza East, 713-629-1200

### September 11-13, 2012 • Pittsburgh, PA

Marriott City Center, 112 Washington Place, 412-471-4000

### October 16-18, 2012 • Tulsa, OK

Doubletree Hotel, 6110 S. Yale, 918-495-1000

### December 4-6, 2012 • Houston, TX

Renaissance Houston Hotel, 6 Greenway Plaza East, 713-629-1200

**Overnight Accommodations:** If you wish to make room reservations at the seminar site, contact the hotel directly. Specify you are with The University of Tulsa seminar for special group rates. To ensure space availability and special group rates, reservations should be made 1 1/2 months prior to the seminar date.

## Just a Few of the Course Benefits:

- You will see how the processes behind petroleum exploration and production contribute to your company.
- Your newly acquired skill set can immediately be put to work increasing your overall job productivity.
- This program will build your enthusiasm for the petroleum industry and increase your confidence.
- Obtaining a better understanding of the industry will allow you to communicate efficiently with others in your company.

**This seminar has been taught across the country for more than 30 years to more than 20,000 oil industry professionals and laypersons, and it continues to receive excellent evaluations and acclaim.**

"This course was excellent and the hands-on items and examples added to the learning process."

— S. Schasteen, Sr. Engr. Tech, Highmount E&P

"Excellent course. Provided a terrific overview of the O & G industry in a very straightforward manner."

— C. Torrence, Asst. Technician, Marathon Oil

"Wow! Why didn't I take this earlier? I feel like a genius compared to me 3 days ago. I will definitely increase my productivity & comprehension at my job."

— L. Williams, Square Mile Energy

"Excellent course. Every professional in the E&P industry should take it. The instructor, Prof. Norman Hyne, is excellent."

— V. Jilledimudi, Sr. Computer Scientist, Fugro-Jason, Inc.

"Dr. Hyne's delivery of the material is unmatched! His experience and knowledge shine through!"

— S. Lancon, IT Admin, Geoscience Systems, Anadarko

"A great primer for one and all in the O&G industry. Dr. Hyne is that rare combination of expert, academic and showman."

— R. Cooper, Director of Research, Lucas Petroleum

"Norm does an excellent job of outlining the essentials of the oil & gas industry, using clear and early to understand terminology."

— N. Gianoutsos, Physical Scientist, USGS

"Dr. Hyne is informative, exciting, and extremely knowledgeable. He makes the class fun!"

— D. Barksdale, Engineer Tech, Keith F. Walker Oil & Gas

"If you are in the industry, this is a must."

— M. Wright, Sales/Fluids Engineer, Mega Fluids Mid-Con LLC

"Excellent! This class should be mandatory for all non-geologist personnel in petroleum companies."

— H. Lozano, Senior Systems Technical Assistant, ExxonMobil

## Accreditation Information

This course has been applied for American Association of Professional Landmen RLP and CPL Hours, Continuing Legal Education Hours, and CPE Hours in many states.

## Registration Form *(print legibly)*

Yes, I would like to enroll in the following seminar:

### Basic Petroleum Geology for the Non-Geologist

- March 13-15, 2012 - Oklahoma City, OK
- April 17-19, 2012 - Houston, TX
- June 19-21, 2012 - Denver, CO
- August 21-23, 2012 - Houston, TX
- September 11-13, 2012 - Pittsburgh, PA
- October 16-18, 2012 - Tulsa, OK
- December 4-6, 2012 - Houston, TX

Name \_\_\_\_\_

Title \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

Zip \_\_\_\_\_ Country \_\_\_\_\_

Phone (\_\_\_\_\_) \_\_\_\_\_

Fax (\_\_\_\_\_) \_\_\_\_\_

Email \_\_\_\_\_

**ENROLL ONLINE AT [WWW.CESE.UTULSA.EDU](http://WWW.CESE.UTULSA.EDU)**  
*(credit card payments only)*

#### Tuition Fee *(net U.S. dollars):*

- \$1595 per person - early enrollment or group discount
- \$1695 per person - regular tuition fee

#### Method of Payment:

- Check enclosed. *Make payable to The University of Tulsa, CESE*
- Charge my credit card.

VISA  MasterCard  Discover  Am. Exp.

Card Number \_\_\_\_\_

Expiration Date \_\_\_\_\_

#### Contact our office at:

The University of Tulsa, CESE  
800 South Tucker Drive, Tulsa, OK 74104-3189 USA  
FAX: 918-631-2154  
CALL: 918-631-3088  
EMAIL: [cese@utulsa.edu](mailto:cese@utulsa.edu)

## It's Easy To Enroll

1. **Return the registration form to:** The University of Tulsa, Continuing Engineering & Science Education, 800 S. Tucker Drive, Tulsa, OK 74104-3189
2. **Call our office at** (918) 631-3088
3. **Fax the form to** (918) 631-2154
4. **Email us at:** [cese@utulsa.edu](mailto:cese@utulsa.edu)
5. **Enroll online:** [www.cese.utulsa.edu](http://www.cese.utulsa.edu) (credit card payments only)

**Seminar Fee:** The seminar fee includes all course materials, certificate of completion, and daily break refreshments.

**Early Enrollment Discount:** To qualify, your registration and payment must be received in our office one month prior to the seminar location you plan to attend.

**Group Discount:** Available to groups of two or more people from the same company attending the same location.

**Refunds:** All paid seminar fees will be refunded in the unlikely event the course is canceled. Those who cancel five working days or less prior to the seminar will receive a refund less an administrative fee of \$75. Refunds will not be granted after class has begun or for nonattendance. Substitutions are permitted at any time.

**Unable to attend the seminar?**  
Sign-up for the shortened online version of this program, *Petroleum Exploration & Production: An Online Overview*.

This online course is designed to provide your company with an easily accessible, interactive, flexible, and exciting training tool.

- It provides a summary of the petroleum industry from what is natural gas and crude oil to how to explore, drill, and produce oil and gas.
- It is a technical program presented on a non-technical level through audio visuals, graphics, text, quizzes, and examples.
- Narrated by Dr. Norman J. Hyne - his enthusiasm of this topic will keep your interest.
- Learn at your own pace with the anytime, anywhere learning format.

For more information about this program, and to sign-up, visit our website at [cese.utulsa.edu](http://cese.utulsa.edu), call us at 918-631-3088, or email us at [cese@utulsa.edu](mailto:cese@utulsa.edu).

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The Original Short Course Since 1979

# Basic Petroleum Geology for the Non-Geologist

*Learn the language and process of:  
Exploration • Drilling • Production*

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Oklahoma City, OK

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**SEPT. 11-13, 2012**

Pittsburgh, PA

**OCT. 16-18, 2012**

Tulsa, OK

**DEC. 4-6, 2012**

Houston, TX

**INSTRUCTED BY  
NORMAN J. HYNE, PH.D.**



The University of Tulsa does not discriminate on the basis of personal status or group characteristics including but not limited to the classes protected under federal and state law. Questions regarding this policy may be addressed to the Office of Legal Compliance, (918) 631-2423.