



## Oil & Gas Industry Operations and Markets

 Instructor: [Lincoln Pratson](#)

[Enroll for free](#)

Starts Dec 2

**162,897** already enrolled

Included with **coursera PLUS** • [Learn more](#)

### 2 modules

Gain insight into a topic and learn the fundamentals.

4.8 ★

(6,455 reviews)

**7 hours to complete**

### Flexible schedule

Learn at your own pace

1,181,123 learners

Most learners liked this course

### Skills you'll gain

Energy and Utilities Market Analysis Operations Market Trend Natural Resource Management Production Process Cost Estimation Oil and Gas  
Transportation Operations Market Dynamics

### Details to know



Shareable certificate  
Add to your LinkedIn profile

 Taught in English  
[22 languages available](#)



### Assessments

7 assignments<sup>1</sup>  
AI Graded [see disclaimer](#)

**See how employees at top companies are mastering in-demand skills**



The oil and gas industry has an enormous impact on all aspects of daily life. Individuals, corporations, and national governments make financial and policy decisions based on the cost, use, and availability of these two natural resources. This two-week course looks at the two most fundamental aspects of the oil and gas industry, its operations and markets, each of which is addressed as a separate module in the course. In the operations module, the course provides an overview of the production of oil and gas, from initial exploration to final transport. The second module focuses on the forces that drive the industry's operations, the oil and gas markets, including the cost

of wells, seasonal impacts on prices, and the role of oil reserves. After every lesson, learners will take short quizzes to test their newly acquired knowledge, participate in crowd-sourced discussions about global markets, and complete a final project.

[Join for Free](#)

[Read less](#)

## Oil and Gas Operations and Technology

[Module details ^](#)

Module 1 • 3 hours to complete

In this module, you will learn about the core activities that the Oil and Gas Industry executes to bring natural gas and petroleum products to market. We will look at the exploration and production of oil and gas, the processing and refining of the oil and gas into useable fuels and other valuable commodities, and finally the transport of oil, gas, and petroleum products from wells to refineries to retail outlets.

### What's included

16 videos    1 reading    4 assignments

[Hide info about module content ^](#)

**16 videos • Total 76 minutes**

Oil and Gas Industry Overview

•

3 minutes

Oil and Gas Sources

•

2 minutes

The Hydrocarbon System

•

6 minutes

What Makes for a Good Reservoir Rock

•

3 minutes

Exploration Tools and Methods

•

3 minutes

Acquiring Mineral Rights

•

8 minutes

The Drilling Process

•

10 minutes

Prospect to Play

•

2 minutes

Production Over Time

•

4 minutes

Enhanced Oil and Gas Production

•

2 minutes

Processing Natural Gas

•

3 minutes

Crude Oil Distillation

•

5 minutes

Additional Refining Processes

•

5 minutes

Oil Midstream

•

6 minutes

Natural Gas Midstream

•

4 minutes

## Liquified Natural Gas

- 3 minutes

### 1 reading • Total 10 minutes

Report a problem with the course

- 10 minutes

### 4 assignments • Total 120 minutes

Oil and Gas Exploration

- 30 minutes

Production

- 30 minutes

Processing and Refining

- 30 minutes

Transport

- 30 minutes

---

## Oil and Gas Industry Markets

[Module details ^](#)

Module 2 • 4 hours to complete

In this second module, the course shifts to the markets that drive Oil and Gas Industry operations. You will learn about the various costs of the core oil and gas industry activities, the factors that determine the prices that oil, gas and petroleum products sell for, and the effect that the amount of oil and gas remaining in the ground has on the future viability of individual companies to the Industry as a whole.

### What's included

 14 videos     1 reading     3 assignments     1 peer review

[Hide info about module content ^](#)

### 14 videos • Total 71 minutes

Cost Components

- 0 minutes

Well Drilling and Production Costs

- 5 minutes

Well Cost and Revenue Sharing

- 4 minutes

Well Cash Flow

- 2 minutes

Transport, Processing and Sales Costs

- 6 minutes

Benchmark Costs

- 4 minutes

Supply, Demand, and Price Elasticity

- 6 minutes

Seasonal Impacts on Oil and Gas Prices

- 6 minutes

Short-Term Constraints on Prices

- 4 minutes

#### Types of Prices

- 7 minutes

#### Original Oil and Gas in Place

- 4 minutes

#### Resources vs. Reserves

- 5 minutes

#### Access to Conventional Reserves

- 5 minutes

#### Additional Types of Unconventional Resources

- 5 minutes

### 1 reading • Total 10 minutes

#### Share your learning experience

- 10 minutes

### 3 assignments • Total 62 minutes

#### Oil and Gas Markets - Costs

- 30 minutes

#### Oil and Gas Markets - Prices

- 16 minutes

#### Oil and Gas Markets - Future of O&G

- 16 minutes

### 1 peer review • Total 120 minutes

#### Oil and Gas Company Profile

- 120 minutes

## Instructor

Instructor ratings  4.8 ★ (1,851 ratings)



[Lincoln Pratson](#)

Duke University

2 Courses • 210,297 learners

## Offered by



[Duke University](#)

[Learn more](#)

## Explore more from Environmental Science and Sustainability

[Recommended](#)

[Specializations](#)

[Degrees](#)

[Free Trial](#)

[Free Trial](#)

 L&T EduTech  
Hydrocarbon Exploration and Production

 L&T EduTech  
From Wellhead to Refinery: Midstream Oil and Gas Processing

 L&T EduTech  
Safeties, Safety & Environmental Care in Oil & Gas Industry

 Duke University  
Electric Industry Operations and Markets

Show 8 more

## Why people choose Coursera for their career



Felipe M.  
Learner since 2018

"To be able to take courses at my own pace and rhythm has been an amazing experience. I can learn whenever it fits my schedule and mood."



★ 4.8 6,455 reviews



EO

★ 5 • Reviewed on Nov 18, 2019

This is an awesome introductory course about the latest O&G industry operations and markets. I am truly benefited from this course and I highly recommend everyone to enroll in this course!

DD

★ 5 • Reviewed on May 14, 2019

Very rich and informative course. This course provides an exhaustive introduction towards the Oil and Gas market, it covers all the factors and parameters with great detail. Enjoyed it thoroughly!

EK

★ 5 • Reviewed on May 5, 2020

It was simply excellent! Very clear and comprehensive. Really gave a good overview of the oil and gas sector. The professor's voice was also very clear. He was well spoken. I learned a lot. Thank you!

[View more reviews](#)

**coursera** PLUS

### Open new doors with Coursera Plus

Unlimited access to 10,000+ world-class courses, hands-on projects, and job-ready certificate programs - all included in your subscription

[Learn more](#)



## Advance your career with an online degree

Earn a degree from world-class universities - 100% online

Explore degrees



## Join over 3,400 global companies that choose Coursera for Business

Upskill your employees to excel in the digital economy

Learn more



## Frequently asked questions

### ^ Will I receive a transcript from Duke University for completing this course?

No. Completion of a Coursera course does not earn you academic credit from Duke; therefore, Duke is not able to provide you with a university transcript. However, your electronic Certificate will be added to your Accomplishments page - from there, you can print your Certificate or add it to your LinkedIn profile.

### ^ When will I have access to the lectures and assignments?

To access the course materials, assignments and to earn a Certificate, you will need to purchase the Certificate experience when you enroll in a course. You can try a Free Trial instead, or apply for Financial Aid. The course may offer 'Full Course, No Certificate' instead. This option lets you see all course materials, submit

required assessments, and get a final grade. This also means that you will not be able to purchase a Certificate experience.

^ **What will I get if I purchase the Certificate?**

When you purchase a Certificate you get access to all course materials, including graded assignments. Upon completing the course, your electronic Certificate will be added to your Accomplishments page - from there, you can print your Certificate or add it to your LinkedIn profile.

⌄ **Is financial aid available?**

Show all 4 frequently asked questions ⌄

**More questions**



[Visit the learner help center](#)

Financial aid available, [learn more](#)

<sup>1</sup> Some assignments in this course are AI-graded. For these assignments, your data will be used in accordance with [Coursera's Privacy Notice](#).

Enroll for free  
Starts Dec 2

Skills	Certificates & Programs	Industries & Careers	Career Resources
Artificial Intelligence (AI)	Google Cybersecurity Certificate	Business	Career Aptitude Test
Cybersecurity	Google Data Analytics Certificate	Computer Science	Examples of Strengths and Weaknesses for Job Interviews
Data Analytics	Google IT Support Certificate	Data Science	High-Income Skills to Learn
Digital Marketing	Google Project Management Certificate	Education & Teaching	How Does Cryptocurrency Work?
English Speaking	Google UX Design Certificate	Engineering	How to Highlight Duplicates in Google Sheets
Generative AI (GenAI)	IBM Data Analyst Certificate	Finance	How to Learn Artificial Intelligence
Microsoft Excel	IBM Data Science Certificate	Healthcare	Popular Cybersecurity Certifications
Microsoft Power BI	Machine Learning Certificate	Human Resources (HR)	Preparing for the PMP Certification
Project Management	Microsoft Power BI Data Analyst Certificate	Information Technology (IT)	Signs You Will Get the Job After an Interview
Python	UI / UX Design Certificate	Marketing	What Is Artificial Intelligence?

Coursera	Community	More
About	Learners	Press
What We Offer	Partners	Investors
Leadership	Beta Testers	Terms
Careers	Blog	Privacy
Catalog	The Coursera Podcast	Help
Coursera Plus	Tech Blog	Accessibility
Professional Certificates		Contact
MasterTrack® Certificates		Articles
Degrees		Directory
For Enterprise		Affiliates
For Government		Modern Slavery Statement
For Campus		Manage Cookie Preferences
Become a Partner		
Social Impact		
Free Courses		
Share your Coursera learning story		

