PetroSkills

The Future of the Digital Oilfield

MODULE

About the Skill Module

This module provides an overview of the emerging trends in digital technology and their impact on future oil and gas operations. Discussion is included on how facilities are becoming minimally manned with the increasing role of robots and drones. Finally, the module discusses the role of digital twins, artificial intelligence, and advanced engineering analytics in shaping the future of oil and gas.

Target Audience

Engineers, geoscientists, and data analysts who want to and need to understand how this field is evolving.

You Will Learn

You will learn how to:

- Describe industrial Internet of Things (IoT)
- Explain automation and autonomy as emerging trends in digital technology
- Recognize the importance of using robots and drones in oil and gas operations
- Describe blockchain and digital supply chain
- Describe what are remote decision support centers
- Explain the importance of measuring what matters
- Recognize the future of production facilities – offshore and onshore
- Describe what is a digital twin
- Recognize the role of artificial intelligence (AI) and machine learning in oil and gas operations
- Recognize the role of data science and advanced engineering analytics in oil and gas operations
- Identify the five concerns in industrial artificial intelligence (AI)

Product Details

Categories: Upstream

Disciplines: Multi-Discipline Training

Levels: Basic

Product Type: Individual Skill Module

Format: On-Demand

Duration: 5.5 hours (approx.)

$395.00