



Consulting and Training | Reach New Heights

Course Name

Sustainable Solutions and Best Practice Digital Technologies for Production

Sector Name

Digital Transformation and Innovation

Document Type

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Sustainable Solutions and Best Practice Digital Technologies for Production

Course Introduction

This course explores the latest sustainable solutions and digital technologies used in production boosting, with a focus on pumps and compressors. Participants will gain insights into optimizing system efficiency, reducing energy consumption, and integrating smart technologies to enhance operational performance while minimizing environmental impact.

Training Methodology:

- ✓ Interactive classroom lectures and technical discussions
- ✓ Case studies from industry leaders in oil & gas
- ✓ Hands-on exercises using digital simulation tools
- ✓ Real-world troubleshooting techniques
- ✓ Best practice frameworks for sustainable production boosting

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Target Audience

- ✓ Mechanical & Rotating Equipment Engineers
- ✓ Process Engineers
- ✓ Senior Production Engineers
- ✓ Asset Integrity Managers
- ✓ Operations & Maintenance Engineers
- ✓ Sustainability & Energy Efficiency Specialists
- ✓ R&D Professionals in Oil & Gas

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Learning Objectives

- ✓ Understand sustainable solutions and digital technologies for pump and compressor optimization
- ✓ Apply best practices in pump and compressor design, operation, and selection
- ✓ Utilize advanced monitoring and performance analysis techniques
- ✓ Optimize energy consumption and reduce emissions in production systems
- ✓ Develop cost-effective, environmentally sustainable production boosting strategies

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Course Outline

✓ DAY 01

Fundamentals of Production Boosting & Sustainability

- ✓ Overview of artificial lift methods and production boosting techniques
- ✓ Fundamentals of pump and compressor operation
- ✓ Key performance indicators (KPIs) for production optimization
- ✓ Environmental and economic considerations in oil & gas sustainability

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Course Outline

✓ Day 02

Sustainable Pumping Technologies & Design

- ✓ Energy-efficient pump technologies (e.g., ESPs, PCPs, multiphase pumps)
- ✓ Optimizing pump design for reduced energy consumption
- ✓ Life cycle assessment (LCA) of pump systems
- ✓ Case studies of sustainable pump applications

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Course Outline

✓ Day 03

Sustainable Compressor Technologies & Digital Innovations

- ✓ Energy-efficient compressor technologies (e.g., centrifugal, reciprocating)
- ✓ Waste heat recovery & emissions reduction techniques
- ✓ Industrial Internet of Things (IIoT) applications for real-time monitoring
- ✓ Advanced analytics, AI, and predictive maintenance for performance optimization

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Course Outline

✓ Day 04

Troubleshooting & Performance Analysis

- ✓ Diagnosing common pump and compressor issues (e.g., cavitation, surge, fouling)
- ✓ Performance testing and data interpretation
- ✓ Troubleshooting strategies for system failures
- ✓ Best practices for extending equipment lifespan

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Course Outline

✓ Day 05

Economic & Environmental Impact Assessment

- ✓ Cost-benefit analysis of sustainable production boosting technologies
- ✓ Investment decision making & risk assessment
- ✓ Environmental compliance and mitigation strategies
- ✓ Case studies of economic and environmental impact assessments

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Sept. 21, 2026	Sept. 25, 2026	5 days	4250.00 \$	UAE , Dubai
Nov. 30, 2026	Dec. 4, 2026	5 days	4250.00 \$	UAE , Abu Dhabi
Jan. 24, 2027	Jan. 28, 2027	5 days	4250.00 \$	KSA , Jeddah
May 24, 2027	May 28, 2027	5 days	4950.00 \$	Netherlands , Amsterdam

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