

Course Name

Sustainable Solutions and Best Practice Digital Technologies for Production Boosting: Focus on Pumps and Compressors

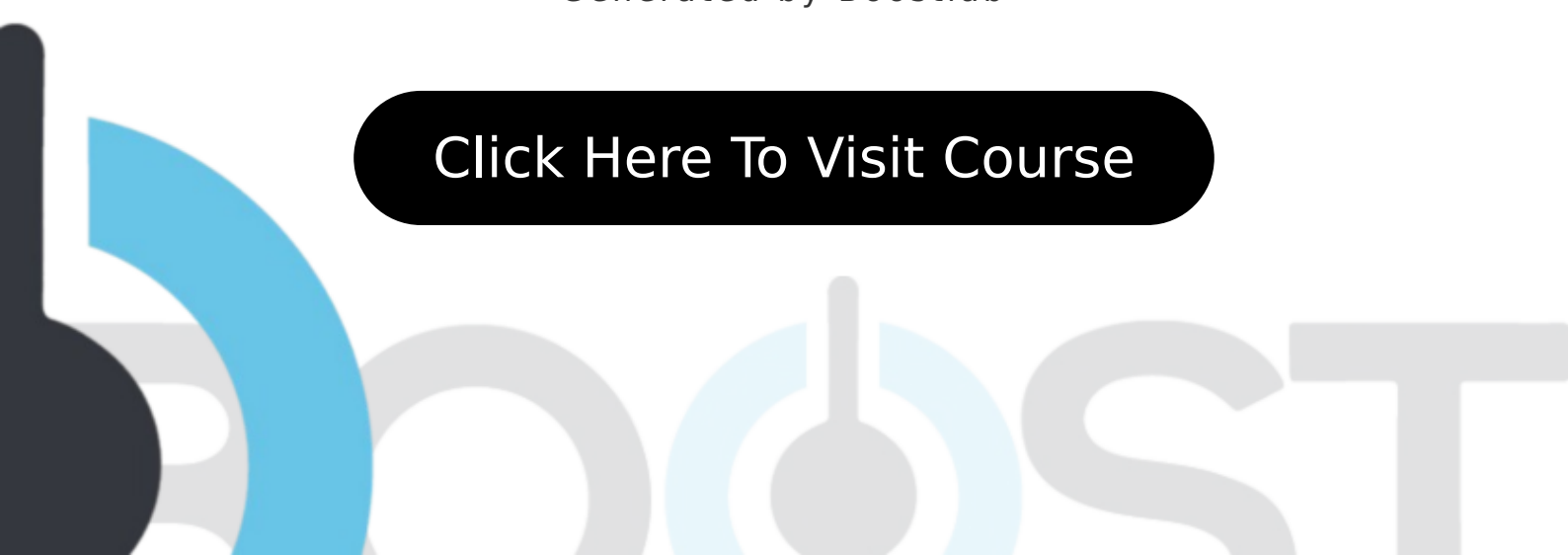
Sector Name

Mechanical Engineering

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Sustainable Solutions and Best Practice Digital Technologies for Production Boosting: Focus on Pumps and Compressors

Course Introduction

Training Methodology:

- ✓ Classroom lectures and discussions
- ✓ Interactive workshops and case studies
- ✓ Hands-on exercises using simulation software
- ✓ Site visits to O&G MARKET LEADER facilities (optional)
- ✓ Group projects and presentations

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Target Audience

Senior and Team Lead Engineers, New Technologies Engineers

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Learning Objectives

- ✓ Understand the latest sustainable solutions and digital technologies for boosting production with pumps and compressors.
- ✓ Apply best practice engineering design and selection principles for optimal pump and compressor performance.
- ✓ Utilize advanced performance analysis techniques to troubleshoot, optimize, and maintain pumping and compression systems.
- ✓ Evaluate the economic and environmental impacts of different production boosting technologies.
- ✓ Develop and implement sustainable solutions for maximizing production while minimizing environmental footprint.

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Course Outline

✓ **01 DAY ONE**

Module 1: Introduction to Production Boosting

- ✓ Overview of artificial lift methods and their applications
- ✓ Fundamentals of pump and compressor operation
- ✓ Key performance indicators (KPIs) for production boosting
- ✓ Sustainability considerations in oil and gas production

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Course Outline

✓ 02 DAY TWO

Module 2: Sustainable Solutions for Pump Systems

- ✓ Energy-efficient pump technologies (e.g., ESPs, PCPs, multiphase pumps)
- ✓ Optimizing pump design and operation for reduced energy consumption
- ✓ Life cycle assessment (LCA) of pump systems
- ✓ Case studies of sustainable pump applications in O&G MARKET LEADER projects

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Course Outline

✓ 03 DAY THREE

Module 3: Sustainable Solutions for Compressor Systems

- ✓ Energy-efficient compressor technologies (e.g., centrifugal, reciprocating)
- ✓ Optimizing compressor design and operation for reduced emissions
- ✓ Waste heat recovery and utilization in compressor systems
- ✓ Case studies of sustainable compressor applications in O&G MARKET LEADER projects

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Course Outline

✓ 04 DAY FOUR

Module 4: Digital Technologies for Pump and Compressor Optimization

- ✓ Introduction to Industrial Internet of Things (IIoT) and its applications in production boosting
- ✓ Real-time monitoring and data acquisition systems for pumps and compressors
- ✓ Advanced analytics and machine learning for performance optimization
- ✓ Predictive maintenance and failure prevention strategies

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Course Outline

✓ 05 DAY FIVE

Module 5: Engineering Design of Pumping Systems

- ✓ Pump selection criteria and best practices
- ✓ Hydraulic analysis and system design considerations
- ✓ Material selection for corrosion and wear resistance
- ✓ Case studies of pump design optimization in O&G MARKET LEADER projects

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Course Outline

✓ 06 DAY SIX

Module 6: Engineering Design of Compressor Systems

- ✓ Compressor selection criteria and best practices
- ✓ Thermodynamic analysis and system design considerations
- ✓ Material selection for high-pressure and high-temperature applications
- ✓ Case studies of compressor design optimization in O&G MARKET LEADER projects

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Course Outline

✓ 07 DAY SEVEN

Module 7: Pump Performance Analysis and Troubleshooting

- ✓ Performance testing and data interpretation
- ✓ Diagnosing common pump problems (e.g., cavitation, vibration, wear)
- ✓ Troubleshooting techniques and best practices
- ✓ Case studies of pump performance optimization in O&G MARKET LEADER projects

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Course Outline

✓ 08 DAY EIGHT

Module 8: Compressor Performance Analysis and Troubleshooting

- ✓ Performance testing and data interpretation
- ✓ Diagnosing common compressor problems (e.g., surge, fouling, lubrication issues)
- ✓ Troubleshooting techniques and best practices
- ✓ Case studies of compressor performance optimization in O&G MARKET LEADER projects

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Course Outline

✓ 09 DAY NINE

Module 9: Advanced Pump Technologies

- ✓ Emerging pump technologies (e.g., smart pumps, downhole separation)
- ✓ Applications of artificial intelligence (AI) in pump optimization
- ✓ Future trends in pump technology and sustainability
- ✓ Research and development initiatives in the O&G MARKET LEADER

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Course Outline

✓ 10 DAY TEN

Module 10: Advanced Compressor Technologies

- ✓ Emerging compressor technologies (e.g., magnetic bearing compressors, hydrogen compression)
- ✓ Applications of AI in compressor optimization
- ✓ Future trends in compressor technology and sustainability
- ✓ Research and development initiatives in the O&G MARKET LEADER

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Course Outline

✓ 11 DAY ELEVEN

Module 11: Economic Evaluation of Production Boosting Technologies

- ✓ Life cycle cost analysis (LCCA) of pump and compressor systems

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✓ 12 DAY TWELVE

Module 12: Evaluating the economic benefits of sustainable solutions

- ✓ Investment decision-making and risk assessment
- ✓ Case studies of economic evaluation in O&G MARKET LEADER projects

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Course Outline

✓ 13 DAY THIRTEEN

Module 13: Environmental Impact Assessment of Production Boosting Technologies

- ✓ Environmental regulations and compliance requirements

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Course Outline

✓ 14 DAY FOURTEEN

Module 14: Assessing the environmental footprint of pump and compressor systems

- ✓ Assessing the environmental footprint of pump and compressor systems
- ✓ Mitigation strategies and best practices
- ✓ Case studies of environmental impact assessment in O&G MARKET LEADER projects

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Course Outline

✓ 15 DAY FIFTEEN

Module 15: Mitigation strategies and best practices

- ✓ Case studies of environmental impact assessment in O&G MARKET LEADER projects

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 10, 2027	May 28, 2027	15 days	16500.00 \$	England , London

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