

TRAINING ON OIL & GAS



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ABOUT US

Welcome to Pertecnica, where knowledge meets expertise! As a leading employee training institute, we specialize in a diverse range of sectors, providing top-notch induction trainings, refresher courses, and elevating skills through our upgradation programs. We take pride in offering mandatory trainings that ensure compliance and safety trainings across various sectors/industries especially in the dynamic sector of Oil and Gas. At Pertecnica, we are your partners in growth, fostering a culture of continuous learning and development. Join us on a transformative journey.



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INDUCTION TRAININGS

- for Oil & Gas

Introduction to Oil and Gas Operations:

- Comprehensive overview of the entire oil and gas value chain, from exploration to production.
- Understanding of the roles and responsibilities within different stages of oil and gas operations.
- Practical insights into the global energy landscape and the importance of the oil and gas industry.

Health, Safety, and Environment (HSE) Induction:

- In-depth training on HSE principles and regulations specific to the oil and gas sector.
- Identification of potential hazards and preventive measures in upstream and downstream activities.
- Practical exercises for promoting a strong safety culture in oil and gas operations.

Drilling and Well Operations Basics:

- Comprehensive training on drilling techniques, well construction, and completion processes.
- Understanding of drilling equipment, technologies, and well control measures.
- Hands-on simulations for a practical understanding of drilling and well operations.



Introduction to Upstream Exploration and Production:

- In-depth overview of upstream activities, including reservoir exploration and hydrocarbon extraction.
- Understanding of reservoir engineering, drilling strategies, and production optimization.
- Practical exercises for analyzing reservoir data and making informed decisions.

Downstream Operations and Refining Processes:

- Comprehensive training on downstream processes, including refining, petrochemicals, and distribution.
- Understanding of refining technologies, petrochemical production, and product distribution.
- Practical insights into downstream value chain management and optimization.

Offshore and Onshore Safety Protocols:

- In-depth training on safety protocols specific to offshore and onshore oil and gas facilities.
- Identification of potential risks associated with each environment and mitigation strategies.
- Practical simulations and drills for emergency response in both offshore and onshore settings.

Introduction to Gas Processing and LNG Operations:

- Comprehensive overview of natural gas processing, liquefied natural gas (LNG) production, and transportation.
- Understanding of gas treatment, liquefaction processes, and LNG storage.
- Practical exercises for optimizing gas processing and LNG operations.



Maintenance and Integrity Management:

- **In-depth training on asset maintenance and integrity management in the oil and gas industry.**
- **Understanding of preventive maintenance, inspection techniques, and asset reliability.**
- **Hands-on simulations for implementing effective maintenance and integrity management practices.**

Introduction to Subsea Operations:

- **Comprehensive training on subsea technologies, equipment, and operations.**
- **Understanding of subsea production systems, installation, and maintenance.**
- **Practical exercises for managing challenges and optimizing subsea operations.**

Introduction to Reservoir Management:

- **In-depth overview of reservoir management principles and strategies.**
- **Understanding of reservoir simulation, pressure maintenance, and enhanced oil recovery (EOR).**
- **Practical applications and case studies for effective reservoir management.**



REFRESHER TRAININGS

- for Oil & Gas

Advanced Health, Safety, and Environment (HSE):

- Updates on the latest HSE regulations and industry-specific safety protocols.
- Advanced training on hazard identification, risk assessment, and emergency response.
- Practical exercises and simulations for reinforcing safety practices in oil and gas operations.

Drilling and Well Operations:

- Updates on the latest drilling technologies, equipment, and well control measures.
- Advanced training on well construction, completion processes, and drilling optimization.
- Hands-on simulations for practicing advanced drilling and well operations techniques.

Upstream Exploration and Production:

- Updates on recent developments in upstream activities, reservoir exploration, and extraction technologies.
- Advanced understanding of reservoir engineering, production optimization, and data analytics.
- Practical exercises for applying advanced techniques in upstream operations.



Downstream Operations and Refining:

- Updates on the latest trends and technologies in downstream processes, refining, and petrochemicals.
- Advanced training on refining optimization, product distribution, and value chain management.
- Case studies and simulations for addressing challenges in downstream operations.

Offshore and Onshore Safety:

- Updates on the latest safety protocols and regulations for offshore and onshore facilities.
- Advanced identification of risks associated with each environment and advanced mitigation strategies.
- Practical simulations and drills for refining emergency response skills in diverse settings.

Gas Processing and LNG Operations:

- Updates on the latest technologies and trends in natural gas processing and LNG production.
- Advanced training on gas treatment, liquefaction processes, and advanced LNG storage.
- Practical exercises for optimizing gas processing and addressing challenges in LNG operations.

Maintenance and Integrity Management:

- Updates on the latest practices in asset maintenance and integrity management.
- Advanced training on preventive maintenance, inspection techniques, and reliability engineering.
- Hands-on simulations for applying advanced maintenance and integrity management strategies.



Subsea Operations:

- **Updates on the latest subsea technologies, equipment, and operational best practices.**
- **Advanced training on subsea production systems, installation, and maintenance.**
- **Practical exercises for addressing advanced challenges and optimizing subsea operations.**

Reservoir Management:

- **Updates on recent developments in reservoir management principles and strategies.**
- **Advanced understanding of reservoir simulation, pressure maintenance, and EOR techniques.**
- **Practical applications and case studies for applying advanced reservoir management practices.**

Leadership and Management Skills:

- **Updates on leadership and management trends in the oil and gas industry.**
- **Advanced training on effective communication, team management, and decision-making.**
- **Case studies and role-playing exercises for enhancing leadership skills in the industry.**



SKILL UPGRADATION PROGRAMME

- for Oil & Gas

Advanced Reservoir Engineering Skills Program:

- In-depth training on advanced reservoir simulation techniques and reservoir modeling.
- Advanced understanding of pressure maintenance strategies and enhanced oil recovery (EOR) techniques.
- Practical applications and case studies for optimizing reservoir management.

Data Analytics and Predictive Maintenance Program:

- Comprehensive training on utilizing data analytics for predictive maintenance in the oil and gas sector.
- Advanced understanding of machine learning algorithms for equipment health monitoring.
- Hands-on exercises using real-time data for predicting and preventing equipment failures.

Digital Oilfield Technologies and Automation Program:

- In-depth training on digital oilfield technologies and automation solutions.
- Advanced understanding of real-time monitoring, control systems, and data integration.
- Practical applications for implementing and optimizing digital oilfield technologies.



Advanced Drilling and Well Control Techniques Program:

- Comprehensive training on advanced drilling techniques, well control, and blowout prevention.
- In-depth knowledge of managed pressure drilling and drilling optimization strategies.
- Practical exercises and simulations for mastering advanced drilling practices.

Integrated Asset Management and Optimization Program:

- In-depth training on integrated asset management principles and optimization strategies.
- Advanced understanding of life cycle costing, reliability-centered maintenance, and asset performance.
- Case studies and practical projects for optimizing assets throughout their life cycle.

Energy Transition and Renewable Integration Program:

- Comprehensive training on the integration of renewable energy in the oil and gas industry.
- Advanced understanding of energy transition trends, carbon capture, and clean energy technologies.
- Practical applications for developing and implementing sustainable energy practices.

Advanced Safety and Risk Management Program:

- In-depth training on advanced safety protocols, risk assessment, and crisis management.
- Advanced understanding of process safety, hazard identification, and risk mitigation.
- Practical simulations and case studies for implementing advanced safety measures.



Leadership in the Energy Industry Program:

- **Comprehensive training on leadership skills tailored to the oil and gas sector.**
- **Advanced understanding of strategic decision-making, change management, and stakeholder engagement.**
- **Case studies and role-playing exercises for developing leadership capabilities in the industry.**

Advanced Gas Processing and LNG Technologies Program:

- **In-depth training on advanced gas processing technologies and LNG production processes.**
- **Advanced understanding of liquefaction techniques, gas treatment, and LNG storage.**
- **Practical exercises for optimizing gas processing and addressing challenges in LNG operations.**

Carbon Management and Emission Reduction Strategies Program:

- **Comprehensive training on carbon management principles and emission reduction strategies.**
- **Advanced understanding of carbon capture and storage, emission monitoring, and reporting.**
- **Practical applications for implementing effective carbon management practices in the industry.**



MANDATORY TRAINING

- for Oil & Gas

Hazardous Operations Awareness Training:

- Comprehensive training on recognizing and managing hazards associated with oil and gas operations.
- Understanding of safety protocols, emergency response procedures, and hazard communication.
- Practical simulations and drills for real-world hazard identification and response.

Process Safety Management Certification:

- In-depth training on the principles and practices of process safety in oil and gas facilities.
- Advanced understanding of risk assessment, hazard analysis, and safety audits.
- Certification upon completion, demonstrating proficiency in ensuring process safety.

Emergency Response and Crisis Management:

- Comprehensive training on emergency response protocols and crisis management strategies.
- Understanding of incident command systems, communication plans, and resource coordination.
- Practical exercises and simulations for effective emergency response in oil and gas incidents.



Well Control and Blowout Prevention Certification:

- In-depth training on well control techniques and blowout prevention strategies.
- Advanced understanding of pressure control, kick detection, and well shut-in procedures.
- Certification to ensure competence in maintaining well integrity and preventing blowouts.

Health and Hygiene in Oil and Gas Environments:

- Comprehensive training on health hazards specific to oil and gas environments.
- Understanding of exposure risks, personal hygiene practices, and health monitoring.
- Practical applications for maintaining a healthy work environment in the industry.

Environmental Compliance and Impact Assessment Training:

- In-depth training on environmental regulations and compliance requirements in the oil and gas sector.
- Advanced understanding of environmental impact assessments, mitigation measures, and monitoring.
- Certification for ensuring compliance with environmental standards in oil and gas operations.

Security and Cybersecurity in Oil and Gas Facilities:

- Comprehensive training on physical security and cybersecurity measures for oil and gas facilities.
- Understanding of security protocols, access control, and cyber threat prevention.
- Practical exercises for implementing and maintaining robust security measures.



Oil Spill Response and Contingency Planning:

- In-depth training on oil spill response strategies and contingency planning.
- Advanced understanding of spill containment, cleanup techniques, and regulatory reporting.
- Certification to demonstrate proficiency in managing and responding to oil spills.

Gas Testing and Atmosphere Monitoring Certification:

- Comprehensive training on gas testing procedures and atmosphere monitoring in oil and gas environments.
- Advanced understanding of gas detection equipment, calibration, and interpretation of results.
- Certification for ensuring a safe working atmosphere through effective gas testing.

Ethics and Compliance in the Oil and Gas Industry:

- In-depth training on ethical principles, anti-corruption measures, and compliance requirements.
- Advanced understanding of legal obligations, reporting procedures, and ethical decision-making.
- Practical scenarios and case studies for applying ethical standards in the industry.



SAFETY TRAINING

- for Oil & Gas

Personal Protective Equipment (PPE) and Hazard Awareness Training:

- In-depth training on the proper selection, usage, and maintenance of personal protective equipment.
- Understanding of different hazards in oil and gas environments and the appropriate PPE for each.
- Practical demonstrations and assessments to ensure correct PPE usage.

Confined Space Entry and Rescue Procedures:

- Comprehensive training on the hazards of confined spaces in oil and gas facilities.
- Understanding of confined space entry protocols, monitoring, and rescue procedures.
- Hands-on exercises and simulations for safe confined space entry and rescue.

Fire Safety and Emergency Response Training:

- In-depth training on fire safety principles, prevention, and emergency response procedures.
- Understanding of fire extinguisher usage, evacuation protocols, and fire suppression systems.
- Practical drills and simulations for handling fire-related emergencies in oil and gas settings.



Gas Detection and Atmosphere Monitoring Certification:

- **Comprehensive training on gas testing procedures and monitoring atmospheric conditions.**
- **Advanced understanding of gas detection equipment, calibration, and interpretation of results.**
- **Certification to ensure a safe working atmosphere through effective gas testing.**

Fall Protection and Working at Heights:

- **In-depth training on fall protection measures and equipment for working at heights.**
- **Understanding of safety protocols and regulations related to elevated work.**
- **Practical demonstrations and simulations for safe practices when working at elevated positions.**

Process Safety Management (PSM) Certification:

- **Comprehensive training on the principles and practices of process safety in oil and gas facilities.**
- **Advanced understanding of risk assessment, hazard analysis, and safety audits.**
- **Certification to ensure proficiency in maintaining process safety and preventing incidents.**

Helicopter Safety and Offshore Transportation Training:

- **In-depth training on helicopter safety protocols and offshore transportation procedures.**
- **Understanding of embarkation and disembarkation processes, emergency exits, and safety briefings.**
- **Practical drills and simulations for ensuring safety during helicopter operations offshore.**



Hazmat Handling and Chemical Safety Training:

- **Comprehensive training on the safe handling, storage, and labeling of hazardous materials.**
- **Identification of chemical hazards and proper use of Material Safety Data Sheets (MSDS).**
- **Practical exercises for safe chemical handling and emergency response in oil and gas environments.**

Emergency Evacuation and Lifeboat Operations:

- **In-depth training on emergency evacuation procedures and lifeboat operations in offshore environments.**
- **Understanding of muster points, lifeboat launching, and survival techniques at sea.**
- **Practical simulations for efficient emergency evacuation and lifeboat operations.**

Security Awareness and Cybersecurity in Oil and Gas Facilities:

- **Comprehensive training on physical security measures and cybersecurity protocols.**
- **Understanding of security risks, access control, and cyber threat prevention.**
- **Practical exercises for maintaining robust security measures in oil and gas facilities.**

