



PB INSTITUTE OF RESEARCH AND TECHNOLOGY

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Nairobi - Kenya

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Energy Transition Management for Oil & Gas Professionals

Duration: 5 days

On-Site

01 Who Should Attend

- Oil & gas executives and senior managers
- Energy transition and sustainability managers
- Strategy and business development professionals
- Corporate planning and transformation teams
- Petroleum and energy professionals
- Exploration and production managers
- Refining and petrochemical professionals
- Engineering and operations managers
- Energy economists and financial analysts
- Investment and portfolio managers in the energy sector
- ESG, sustainability, and climate professionals
- Environmental and carbon management specialists
- Risk management and enterprise risk professionals



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02 About the Course

The **Energy Transition Strategies for Oil Companies Training Course** provides a comprehensive understanding of how oil and gas companies can navigate the rapidly changing global energy landscape while maintaining competitiveness, profitability, and long-term resilience. The course examines the strategic, economic, technological, regulatory, and sustainability factors driving the transition toward lower-carbon and diversified energy systems. Through strategic frameworks, industry case studies, scenario analysis, and practical exercises, participants will learn how to assess transition risks and opportunities, develop energy transition roadmaps, evaluate investments, establish decarbonization targets, and align business strategies with evolving market and regulatory expectations.

03 Workshop Objectives

- Master renewable energy integration and diversification techniques.
- Utilize carbon capture, utilization, and storage (CCUS) strategies.
- Implement hydrogen technologies and infrastructure development.
- Design and build sustainable business models and circular economy initiatives.
- Optimize ESG reporting and stakeholder engagement.
- Troubleshoot and address common challenges in energy transition.
- Implement regulatory compliance and climate risk management.
- Integrate energy transition strategies with core business operations.
- Understand how to manage large-scale energy transition projects.

04 Module Topics

Module 1: Introduction to Energy Transition Strategies



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- Fundamentals of energy transition strategies for oil companies.
- Overview of energy transition drivers and challenges.
- Setting up an energy transition strategy framework.
- Introduction to energy transition tools and methodologies.
- Best practices for energy transition.

Module 2: : Renewable Energy Integration

- Mastering renewable energy integration and diversification techniques.
- Utilizing solar, wind, and geothermal energy.
- Implementing hybrid energy systems and microgrids.
- Designing and building renewable energy portfolios.
- Best practices for renewable integration.

Module 3: Carbon Capture, Utilization, and Storage (CCUS)

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- Implementing CO2 capture technologies.
- Utilizing CO2 transportation and storage infrastructure.
- Designing and building CCUS projects.
- Best practices for CCUS.

Module 4: Hydrogen Technologies

- Implementing hydrogen technologies and infrastructure development.
- Utilizing green and blue hydrogen production.
- Implementing hydrogen storage and transportation.
- Designing and building hydrogen infrastructure.
- Best practices for hydrogen.

Module 5: Sustainable Business Models



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- Designing and build sustainable business models and circular economy initiatives.
- Utilizing circular economy principles and practices.
- Implementing sustainable supply chain management.
- Designing and building sustainable business strategies.
- Best practices for sustainable models.

Module 6: ESG Reporting and Engagement

- Optimizing ESG reporting and stakeholder engagement.
- Utilizing ESG frameworks and metrics.
- Implementing stakeholder communication and transparency.
- Designing and building ESG reporting systems.
- Best practices for ESG.

Module 7: Troubleshooting Transition Challenges

- Troubleshooting and addressing common challenges in energy transition.
- Analyzing transition risks and opportunities.
- Utilizing problem-solving techniques for resolution.
- Resolving common transition implementation issues.
- Best practices for troubleshooting.

Module 8: Regulatory Compliance and Risk Management

- Implementing regulatory compliance and climate risk management.
- Utilizing carbon pricing and emissions trading.
- Implementing climate risk assessment and mitigation.
- Designing and building compliance programs.
- Best practices for compliance.

Module 9: Integration with Core Operations



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- Integrating energy transition strategies with core business operations.
- Utilizing strategic planning and scenario analysis.
- Implementing operational integration and alignment.
- Designing and building integrated transition systems.
- Best practices for integration.

Module 10: Large-Scale Transition Projects

- Understanding how to manage large-scale energy transition projects.
- Utilizing project management tools and techniques.
- Implementing program evaluation and reporting.
- Designing scalable transition solutions.
- Best practices for project management.

Module 11: Emerging Transition Technologies

- Exploring emerging technologies in energy transition (advanced biofuels, smart grids).
- Utilizing advanced biofuels and bioenergy.
- Implementing smart grids and energy storage.
- Designing and building advanced transition systems.
- Best practices for advanced applications.

Module 12: Real-World Transition Use Cases

- Applying real world use cases for energy transition in various oil and gas scenarios.
- Utilizing transition strategies in offshore operations.
- Implementing transition strategies in refining and petrochemicals.
- Utilizing transition strategies in natural gas infrastructure.
- Implementing transition strategies in upstream operations.
- Best practices for real-world applications.

Module 13: : Transition Tools Implementation



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- ▶ Leveraging energy transition tools and frameworks for efficient implementation.
- ▶ Utilizing carbon accounting and LCA software.
- ▶ Implementing scenario planning and financial modeling tools.
- ▶ Designing and building automated transition workflows.
- ▶ Best practices for tool implementation.

Module 14: Monitoring and Metrics

- ▶ Implementing energy transition project monitoring and metrics.
- ▶ Utilizing transition performance indicators and KPIs.
- ▶ Designing and building monitoring systems for transition projects.
- ▶ Optimizing monitoring for real-time insights.
- ▶ Best practices for monitoring.

Module 15: Future Trends in Energy Transition

- ▶ Emerging trends in energy transition technologies and applications.
- ▶ Utilizing digital twins for transition simulation.
- ▶ Implementing AI and machine learning for transition optimization.
- ▶ Best practices for future transition management.