



PB INSTITUTE OF RESEARCH AND TECHNOLOGY

P.O Box 21457-00100

Nairobi - Kenya

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Environmental Impact Assessment for Oil & Gas Projects Training Course

Duration: 5 days

On-Site

01 Who Should Attend

- Environmental managers and specialists
- Oil and gas engineers and technical professionals
- HSE and environmental professionals
- EIA practitioners and consultants
- Petroleum and exploration professionals
- Drilling and production personnel
- Project and facility managers
- Environmental regulators and government officials
- Sustainability and ESG professionals
- Compliance and risk management professionals
- Biodiversity and conservation specialists
- Environmental scientists and geoscientists
- Oil and gas project developers



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02 About the Course

The **Environmental Impact Assessment in Oil & Gas Training Course** provides participants with practical knowledge and skills for assessing, managing, and mitigating the environmental impacts associated with oil and gas exploration, drilling, production, processing, transportation, and decommissioning activities.

The course examines the principles and processes of **Environmental Impact Assessment (EIA)** within the oil and gas sector, including environmental screening, scoping, baseline studies, impact identification and prediction, risk assessment, mitigation planning, stakeholder engagement, environmental management plans, monitoring, reporting, and regulatory compliance.

Participants will explore how to evaluate impacts on air quality, water resources, soil, biodiversity, ecosystems, communities, and climate. The course also addresses environmental risks associated with spills, emissions, produced water, waste management, pipeline operations, offshore activities, and facility development.

Through practical case studies, assessment techniques, and industry examples, participants will learn how to develop effective environmental management strategies and support responsible, sustainable, and compliant oil and gas projects.



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03 Workshop Objectives

- Master EIA methodologies and regulatory frameworks.
- Utilize baseline studies and data collection techniques.
- Implement impact prediction and evaluation methods.
- Design and build effective mitigation and monitoring plans.
- Optimize stakeholder engagement and public consultation processes.
- Troubleshoot and address common challenges in EIA implementation.
- Implement environmental management systems (EMS) in oil and gas projects.
- Integrate EIA into project planning and execution.

04 Module Topics

Module 1: Introduction to Environmental Impact Assessment

- Fundamentals of environmental impact assessment in oil & gas.
- Overview of EIA principles and regulatory requirements.
- Setting up an EIA project planning framework.
- Introduction to EIA tools and methodologies.
- Best practices for EIA implementation.

Module 2: EIA Methodologies and Regulations

- Mastering EIA methodologies and regulatory frameworks.
- Utilizing screening, scoping, and impact assessment techniques.
- Implementing international and national EIA regulations.
- Designing and building EIA compliance strategies.
- Best practices for EIA methodologies.

Module 3: Baseline Studies and Data Collection



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- Utilizing baseline studies and data collection techniques.
- Implementing environmental surveys and monitoring.
- Utilizing GIS and remote sensing for data analysis.
- Designing and building baseline data collection plans.
- Best practices for data collection.

Module 4: Impact Prediction and Evaluation

- Implementing impact prediction and evaluation methods.
- Utilizing impact matrices and network analysis.
- Implementing quantitative and qualitative impact assessment.
- Designing and building environmental management plans.
- Best practices for mitigation.

Module 5: Mitigation and Monitoring Plans

- Designing and build effective mitigation and monitoring plans.
- Utilizing best available technologies (BAT) for mitigation.
- Implementing environmental monitoring and auditing.
- Designing and building environmental management plans.
- Best practices for mitigation.

Module 6: Stakeholder Engagement

- Optimizing stakeholder engagement and public consultation processes.
- Utilizing public hearings and community consultations.
- Implementing stakeholder communication and feedback mechanisms.
- Designing and building stakeholder engagement plans.
- Best practices for stakeholder engagement.

Module 7: Troubleshooting EIA Challenges



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- Troubleshooting and addressing common challenges in EIA implementation.
- Analyzing EIA data and assessment results.
- Utilizing problem-solving techniques for resolution.
- Resolving common EIA implementation errors.
- Best practices for troubleshooting.

Module 8: Environmental Management Systems (EMS)

- Implementing environmental management systems (EMS) in oil and gas projects.
- Utilizing ISO 14001 and other EMS standards.
- Implementing environmental policies and procedures.
- Designing and building EMS frameworks.
- Best practices for EMS.

Module 9: Integration with Project Planning

- Integrating EIA into project planning and execution.
- Utilizing EIA in project feasibility studies.
- Implementing EIA in project design and construction.
- Designing and building integrated EIA plans.
- Best practices for integration.

Module 10: Large-Scale EIA Projects

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

Module 11: Emerging EIA Technologies



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- Exploring emerging EIA technologies and best practices (life cycle assessments, digital tools).
- Utilizing life cycle assessment (LCA) for environmental impact.
- Implementing digital tools for EIA data management.
- Designing and building advanced EIA systems.
- Optimizing advanced applications for specific use cases.
- Best practices for advanced applications.

Module 12: Real-World EIA Use Cases

- Applying real world use cases for EIA in various oil and gas scenarios.
- Utilizing EIA in offshore drilling projects.
- Implementing EIA for pipeline construction.
- Utilizing EIA in unconventional resource development.
- Implementing EIA for decommissioning projects.
- Best practices for real-world applications.

Module 13: EIA Tools Implementation

- Leveraging EIA tools and frameworks for efficient assessment and reporting.
- Utilizing GIS and environmental modeling software.
- Implementing data management and reporting tools.
- Designing and building automated EIA workflows.
- Best practices for tool implementation.

Module 14: Monitoring and Metrics

- Implementing EIA monitoring and metrics.
- Utilizing environmental performance indicators and KPIs.
- Designing and building monitoring systems for EIA projects.
- Optimizing monitoring for real-time insights.
- Best practices for monitoring.

Module 15: Future Trends in EIA



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- ▶ Emerging trends in EIA technologies and applications for the oil and gas sector.
 - ▶ Utilizing advanced sensor technologies and remote sensing.
 - ▶ Implementing AI and machine learning for environmental data analysis.
 - ▶ Best practices for future EIA management.