Energy Economics, Security & Infrastructure, and Stakeholder Management

Description

Introduction

The global energy sector is undergoing profound transformation driven by **geopolitical volatility, climate change, technological disruption, and the global energy transition**. While oil and gas remain central to the global economy, new pressures such as **cybersecurity threats, decarbonization policies, ESG compliance, and community expectations** demand a more integrated and forward-looking approach.

This program equips participants with the knowledge and tools to **analyze complex energy economics, safeguard critical infrastructure, manage risks, and engage stakeholders** in a way that ensures **resilience, sustainability, and competitiveness** in the new era.

Objectives

By the end of this program, participants will be able to:

1. **Understand** the fundamentals of energy economics and disruptions, with a focus on oil and gas markets.
2. **Assess vulnerabilities** in critical oil and gas infrastructure and apply advanced risk assessment frameworks.
3. **Design security strategies** to mitigate theft, sabotage, and cyber threats.
4. **Engage stakeholders** effectively, ensuring social license to operate and minimizing community conflicts.
5. **Evaluate energy projects** using economic modelling tools (NPV, IRR, sensitivity analysis).
6. **Align security investments** with market realities, governance frameworks, and sustainable development goals.

info@learnifytraining.com +971564620901 www.learnifytraining.com

7. **Anticipate future challenges** such as decarbonization, renewable integration, and disruptive technologies.

Who Should Attend

This program is designed for professionals and leaders across the **energy, infrastructure, and security domains**, including:

- **Energy & Oil Executives** (Strategy, Economics, Security, Operations)
- **Government Officials & Regulators** (Energy, Security, Infrastructure, Policy)
- **Infrastructure & Security Professionals** (Risk Managers, Security Directors, Asset Protection Specialists)
- **Project Economists & Financial Analysts** in oil, gas, and renewables
- **Community & Stakeholder Managers** in energy megaprojects
- **Academics & Consultants** in energy economics, security, and policy
- **Defense & Law Enforcement Officials** engaged in energy infrastructure protection

Program Structure (5 Days)

Day 1 â?? Module 1: Energy Economics and Energy Disruptions

- Core concepts of energy economics
- Global & local impact of oil
- Economic implications of energy disruptions

- Macroeconomic impacts (GDP, inflation, currency volatility)
- Strategic importance of uninterrupted oil flows
- **Workshop:** Map a disruption scenario & quantify economic cost

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Day 2 â?? Module 2 & 3: Oil Infrastructure Vulnerability & Risk Analysis

- Critical infrastructure: pipelines, refineries, terminals, offshore rigs
- Identifying vulnerabilities in upstream, midstream, downstream assets
- Regional case studies: Nigeria, Mexico, Venezuela
- **Frameworks:** ISO 31000, NIST for risk assessment
- Security audits, threat intelligence, theft prevention
- **Activity:** Mini security strategy for a pipeline corridor

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Day 3 â?? Module 4: Stakeholder Engagement & Community Relations

- Stakeholder mapping: governments, NGOs, private sector, communities
- Social license to operate: grievances, oil theft, conflict drivers
- Benefit-sharing & inclusive communication
- Developing community policing & surveillance models
- **Simulation:** Stakeholder negotiation for pipeline monitoring

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Day 4 â?? Module 5 & 6: Policy, Governance & Energy Pricing

- Legal & regulatory frameworks combating oil theft
- Global maritime security (Gulf of Guinea, Straits of Hormuz)
- Sustainable investment & PPP funding models
- Oil & gas pricing dynamics (Brent, WTI, natural gas indices)
- OPEC & geopolitical factors in supply disruptions
- **Activity:** Integrated strategy for oil theft prevention & resilience

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Day 5 â?? Module 7: Economic Modelling, Project Evaluation & Future Challenges

- NPV, IRR, Payback period, Sensitivity analysis
- ESG & environmental challenges in oil & gas
- Decarbonization strategies and carbon pricing
- Technology & innovation: AI, IoT, blockchain, hydrogen
- Role of renewable energy in the transition
- **Capstone Exercise:** Design a 2050-ready national energy resilience strategy

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Training Methodology

- Expert lectures & facilitation

- Case studies (Nigeria, Mexico, UAE, GCC, EU, Venezuela)
- Risk-mapping & simulation exercises
- Economic modelling workshops
- Stakeholder role-play negotiations
- Scenario planning for future disruptions

Unique Benefits

- Comprehensive course materials & toolkits
- Improved strategic alignment of energy security projects
- Enhanced ability to evaluate energy economics & project ROI
- Advanced risk assessment & security audit skills
- Strengthened stakeholder management strategies
- Forward-looking perspectives on energy transition & resilience
- **Course Completion Certificate**