Training Course on Biodiversity Protection and Environmental Safeguards in Oil and Gas Projects

Professional Development Training Course Outline

Category	Oil and Gas	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

The oil and gas (O&G) sector plays a critical role in global energy supply, but it also presents significant risks to biodiversity and natural ecosystems. As exploration and extraction expand into sensitive habitats, the urgency to implement effective environmental safeguards has never been greater. This training course on Biodiversity Protection & Environmental Safeguards in O&G Projects is designed to provide industry professionals with the knowledge, tools, and case-based practices to mitigate ecological damage, align with international environmental standards, and promote sustainability across upstream and downstream operations.

With a strong focus on sustainability, environmental compliance, ecosystem preservation, ESG integration, and impact mitigation, this course equips participants to implement actionable strategies to conserve biodiversity, ensure regulatory compliance, and support the energy transition. Through real-world case studies, participants will explore leading practices, challenges, and innovations in safeguarding the natural environment while maintaining operational efficiency.

Programme Curriculum

Training Course on Biodiversity Protection & Environmental Safeguards in Oil & Gas Projects

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Course Objectives

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

1. Understand the impact of oil and gas operations on biodiversity and ecosystems.
2. Apply Environmental Impact Assessment (EIA) principles for biodiversity protection.
3. Integrate biodiversity offsetting into project planning and execution.
4. Implement risk-based environmental management systems.
5. Navigate international and national biodiversity regulations.
6. Identify and manage critical habitats and endangered species.
7. Develop and apply best practices in ecological restoration.
8. Incorporate climate resilience into biodiversity conservation strategies.
9. Utilize geo-spatial tools and data for biodiversity monitoring.
10. Align biodiversity actions with ESG and sustainability reporting frameworks.
11. Foster stakeholder engagement in biodiversity planning.
12. Analyze biodiversity-related incidents and response planning.
13. Promote a culture of corporate environmental responsibility.

Target Audiences

1. Environmental Managers in Oil & Gas
2. HSE (Health, Safety, Environment) Officers
3. ESG Compliance Officers
4. Regulatory Authorities and Inspectors
5. Environmental Consultants
6. Biodiversity Researchers and Ecologists
7. Sustainability Officers
8. Project Developers and Engineers in O&G

Course Duration: 5 days

Course Modules

Module 1: Introduction to Biodiversity & Environmental Risks in O&G

- Overview of biodiversity concepts and ecosystem services
- Key environmental risks associated with O&G operations
- Legal and regulatory biodiversity obligations
- Business case for biodiversity protection in O&G
- Global frameworks: CBD, SDGs, IFC Performance Standards
- **Case Study:** BP’s Biodiversity Action Plan in Azerbaijan

Module 2: Environmental Impact Assessment (EIA) for Biodiversity

- Components of an EIA related to biodiversity
- Screening and scoping for ecological impacts
- Mitigation hierarchy: avoid, minimize, restore, offset
- Integrating biodiversity into EIA reports
- Cumulative impact assessments
- **Case Study:** Shell’s EIA Process in the Arctic

Module 3: Habitat Mapping, Monitoring & Critical Habitat Assessment

- Use of GIS and remote sensing in habitat identification
- Criteria for critical habitat designation
- Biodiversity indicators and baseline data collection
- Monitoring techniques for flora and fauna
- Adaptive monitoring and reporting
- **Case Study:** TotalEnergies' Mangrove Monitoring in Nigeria

Module 4: Biodiversity Offsetting & Ecological Restoration

- Principles of biodiversity offsetting
- Developing and implementing offset plans
- Ecological restoration best practices
- Success criteria and performance measurement
- Legal and ethical concerns in offsetting
- **Case Study:** Chevron’s Offset Program in Indonesia

Module 5: Stakeholder Engagement & Indigenous Perspectives

- Identifying key biodiversity stakeholders
- Culturally sensitive biodiversity communication
- Free, Prior and Informed Consent (FPIC)
- Conflict resolution in biodiversity planning
- Partnerships with NGOs and indigenous groups
- **Case Study:** ExxonMobil's Community Forest Initiatives in Papua New Guinea

Module 6: ESG Reporting and Corporate Responsibility

- Linking biodiversity to ESG metrics
- Sustainability reporting frameworks (GRI, TCFD, CDP)

- Integrating biodiversity into corporate policies
- Auditing and continuous improvement practices
- Managing reputational risks
- **Case Study:** Repsol's Biodiversity Commitments in Annual ESG Reports

Module 7: Emergency Response and Biodiversity Risk Management

- Emergency planning for environmental incidents
- Spill response and biodiversity mitigation
- Risk analysis tools for ecological vulnerability
- Role of biodiversity in disaster preparedness
- Post-incident biodiversity restoration
- **Case Study:** Deepwater Horizon Oil Spill Response & Lessons

Module 8: Innovations and Future Trends in Biodiversity Safeguards

- Digital tools for biodiversity assessment (AI, drones)
- Nature-based solutions in infrastructure
- Green technologies and eco-friendly operations
- Net Positive Impact (NPI) strategies
- Future-proofing biodiversity policies
- **Case Study:** Equinor's Innovation in Arctic Exploration with Minimal Ecological Footprint

Training Methodology

- Interactive presentations and expert lectures
- Real-world case studies and group discussions
- Practical exercises and GIS demonstrations
- Role-playing for stakeholder engagement scenarios
- Final project: design a biodiversity safeguard plan for a fictional O&G project

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

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Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com