Training Course on Carbon Pricing and Emissions Trading for the Oil and Gas Sector

Professional Development Training Course Outline

Category	Oil and Gas	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

The global energy transition and climate change mitigation strategies are accelerating the demand for sustainable practices in carbon-intensive sectors. The Oil & Gas (O&G) industry, being one of the largest contributors to greenhouse gas (GHG) emissions, must urgently adapt by integrating carbon pricing and emissions trading systems (ETS) into its operational frameworks. Training Course on Carbon Pricing & Emissions Trading for the Oil & Gas Sector is specifically designed to equip professionals with the knowledge and tools needed to navigate carbon markets, ensure regulatory compliance, and implement strategic decarbonization pathways aligned with global climate goals.

As governments implement carbon taxes, cap-and-trade programs, and compliance markets, understanding the economics of carbon, regulatory impacts, and market-based mechanisms becomes critical. Participants will gain real-world insights into carbon offsetting, ESG frameworks, carbon footprint assessments, and emissions trading platforms. This course emphasizes the role of carbon pricing in sustainable energy transitions, risk management, and competitive strategy formulation in the O&G sector.

Programme Curriculum

Training Course on Carbon Pricing & Emissions Trading for the Oil & Gas Sector

Introduction

The global energy transition and climate change mitigation strategies are accelerating the demand for sustainable practices in carbon-intensive sectors. The Oil & Gas (O&G) industry, being one of the largest contributors to greenhouse gas (GHG) emissions, must urgently adapt by integrating

carbon pricing and emissions trading systems (ETS) into its operational frameworks. Training Course on Carbon Pricing & Emissions Trading for the Oil & Gas Sector is specifically designed to equip professionals with the knowledge and tools needed to navigate carbon markets, ensure regulatory compliance, and implement strategic decarbonization pathways aligned with global climate goals.

As governments implement carbon taxes, cap-and-trade programs, and compliance markets, understanding the economics of carbon, regulatory impacts, and market-based mechanisms becomes critical. Participants will gain real-world insights into carbon offsetting, ESG frameworks, carbon footprint assessments, and emissions trading platforms. This course emphasizes the role of carbon pricing in sustainable energy transitions, risk management, and competitive strategy formulation in the O&G sector.

Course Objectives

1. Understand carbon pricing mechanisms and their application in the O&G industry.
2. Analyze emissions trading systems (ETS) and how they integrate with global carbon markets.
3. Apply carbon accounting principles to track and report GHG emissions effectively.
4. Develop net-zero strategies aligned with ESG compliance frameworks.
5. Examine regulatory landscapes including EU ETS, CORSIA, and national carbon markets.
6. Design carbon offset projects with quantifiable environmental impact.
7. Navigate the voluntary carbon market (VCM) and leverage carbon credits.
8. Integrate carbon pricing into financial risk assessments and investment decisions.
9. Assess climate-related financial disclosures under TCFD and SASB standards.
10. Evaluate the role of carbon leakage and market stability reserves in ETS.
11. Use digital tools and AI for carbon data management and reporting.
12. Interpret case studies from Shell, TotalEnergies, and ExxonMobil on carbon trading.
13. Build internal capacity for sustainable supply chain optimization using carbon metrics.

Target Audiences

1. Environmental Managers in Oil & Gas
2. Sustainability & ESG Officers
3. Carbon Market Analysts
4. Energy Policy Consultants
5. Risk & Compliance Officers
6. Financial Analysts in Energy Sector
7. Regulatory Affairs Professionals
8. Carbon Project Developers & Engineers

Course Duration: 10 days

Course Modules

Module 1: Fundamentals of Carbon Pricing

- Introduction to carbon pricing mechanisms
- Types: carbon tax vs. cap-and-trade
- The social cost of carbon
- Role in emission reductions
- Policy instruments in different countries
- **Case Study:** British Columbia's Carbon Tax and its Economic Impact

Module 2: Emissions Trading Systems (ETS) Explained

- Overview of ETS structures
- Cap-and-trade mechanics
- Allowance allocation methods
- Price volatility and control mechanisms
- Linking different ETS
- **Case Study:** EU ETS and Shell’s trading strategy

Module 3: Carbon Accounting for Oil & Gas

- Scope 1, 2, and 3 emissions
- Emission factor databases
- Life cycle assessment (LCA) for O&G
- Tools and methodologies (GHG Protocol, ISO 14064)
- Emission reporting software
- **Case Study:** ExxonMobil’s Scope 3 Reporting Framework

Module 4: Voluntary Carbon Markets (VCM)

- Overview of voluntary markets
- Standards: Verra, Gold Standard
- Project eligibility and certification
- Corporate offsetting strategies
- Credit trading and retirement
- **Case Study:** Chevron's REDD+ Offset Portfolio

Module 5: Compliance Carbon Markets

- Key regulated markets: EU ETS, CORSIA
- Market access and compliance cycles
- MRV (Monitoring, Reporting, Verification) protocols
- Penalties for non-compliance
- Carbon leakage and border tax adjustments
- **Case Study:** TotalEnergies' EU ETS Compliance Roadmap

Module 6: Designing Net-Zero Pathways

- Defining net-zero in the O&G context
- Role of offsets and removals

- Setting science-based targets
- Decarbonizing supply chains
- Integrating renewables and CCUS
- **Case Study:** BP’s Net-Zero Strategy and Challenges

Module 7: ESG and Carbon Disclosure

- ESG trends and reporting standards
- TCFD and SASB for O&G firms
- Linking carbon metrics to financial disclosure
- Materiality mapping and investor expectations
- Sustainable financing and green bonds
- **Case Study:** Occidental Petroleum’s ESG Integration

Module 8: Carbon Credits & Offsetting

- Carbon credit life cycle
- Developing offset projects
- Market demand and pricing trends
- Due diligence in credit purchases
- Offset retirement and claims
- **Case Study:** Shell Nature-Based Solutions in Nigeria

Module 9: Carbon Risk Assessment & Strategy

- Identifying carbon-related risks
- Carbon pricing risk models
- Scenario analysis and stress testing
- Shadow carbon pricing in investment decisions
- Regulatory and reputational risks
- **Case Study:** BP's Internal Carbon Pricing Mechanism

Module 10: Digital Tools for Carbon Management

- AI and blockchain in carbon markets
- Digital MRV platforms
- IoT and real-time emissions monitoring
- Data integrity and reporting assurance
- Software for carbon footprint tracking
- **Case Study:** IBM and Repsol’s Blockchain Carbon Tool

Module 11: Regional Carbon Markets Overview

- Asia-Pacific ETS (China, Korea)
- U.S. Regional Initiatives (RGGI, California Cap-and-Trade)
- Africa’s emerging carbon markets
- LATAM and Caribbean developments

- Market linkages and harmonization
- **Case Study:** China’s National ETS and PetroChina’s Adaptation

Module 12: Corporate Carbon Strategies

- Carbon governance structures
- Role of executive leadership
- KPIs and internal incentives
- Integrating carbon into strategy maps
- Sustainability-linked executive compensation
- **Case Study:** TotalEnergies' Carbon Performance Incentives

Module 13: Climate Finance and Carbon Instruments

- Overview of green finance instruments
- Carbon funds and investment trends
- Blended finance and public-private initiatives
- Insurance for carbon market participation
- Impact investing in carbon projects
- **Case Study:** World Bank Carbon Fund and Nigeria’s Participation

Module 14: Global Regulatory Landscape

- Paris Agreement and NDCs
- Carbon Border Adjustment Mechanisms (CBAM)
- Role of IMF, WTO, and UNFCCC
- Cross-border compliance challenges
- Trade implications for O&G
- **Case Study:** EU CBAM and African Exporters’ Response

Module 15: Future Trends and Innovations

- Carbon removal technologies (DAC, BECCS)
- Hydrogen and low-carbon fuels
- Nature-based solutions (NBS)
- Digital carbon marketplaces
- Future policy directions and COP outcomes
- **Case Study:** Climeworks and TotalEnergies’ Negative Emissions Collaboration

Training Methodology

- Interactive expert-led lectures with real-time Q&A
- Industry-relevant case studies and group discussions
- Hands-on exercises with carbon pricing simulation tools
- Pre- and post-assessments to evaluate learning outcomes
- Access to updated digital resources, toolkits, and ESG frameworks

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	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Physical	$12,000

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

Register Online Now

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