



EG INTERNATIONAL ACADEMY

(by EMERALDGEARS INITIATIVE FOUNDATION GLOBAL under EGIF - capacity-strengthening initiatives)

Certification Programme on Carbon Trading and Markets (40 Hours) designed to cover foundational concepts, practical applications, and advanced strategies related to carbon trading and markets.

Module 1: Introduction to Carbon Trading and Markets (4 Hours)

- **Overview of Carbon Markets**
 - Voluntary vs. Compliance Carbon Markets
 - Key Stakeholders: Governments, Corporations, NGOs
- **History and Evolution**
 - Kyoto Protocol and Paris Agreement
 - Development of Emission Trading Systems (ETS)
- **Types of Carbon Trading**
 - Cap-and-Trade Systems
 - Carbon Offsetting Mechanisms

Module 2: Greenhouse Gas (GHG) Accounting and Carbon Footprinting (6 Hours)

- **GHG Accounting Basics**
 - Scope 1, 2, and 3 Emissions
 - International Frameworks: GHG Protocol, ISO 14064
- **Carbon Footprinting Tools and Methodologies**
 - Tools: SIMAP, RET Screen, and Climate Action Reserve
- **Case Study:** Corporate GHG Accounting Example

Module 3: Carbon Pricing Mechanisms (6 Hours)

- **Concept of Carbon Pricing**
 - Explicit Carbon Pricing: Carbon Taxes and ETS
 - Implicit Carbon Pricing: Subsidy Removal and Regulatory Costs
- **Case Studies**
 - European Union Emission Trading System (EU ETS)
 - India's Perform, Achieve, and Trade (PAT) Scheme

EG International Academy

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- **Economic Implications of Carbon Pricing**

Module 4: Carbon Offset Mechanisms (6 Hours)

- **Voluntary Carbon Offsets**
 - Standards: Verified Carbon Standard (VCS), Gold Standard
 - Offset Project Types: Renewable Energy, Forestry, and Agriculture
- **Compliance Carbon Markets**
 - Clean Development Mechanism (CDM)
 - Joint Implementation (JI)
- **How to Develop a Carbon Offset Project**

Module 5: Policy, Governance, and Legal Frameworks (6 Hours)

- **Global and Regional Carbon Policies**
 - Role of Paris Agreement, UNFCCC, and SDGs
- **National Carbon Strategies**
 - India's PAT Scheme and Renewable Energy Credits
- **Legal Frameworks for Trading and Enforcement**

Module 6: Emerging Trends and Technologies in Carbon Markets (6 Hours)

- **Carbon Capture, Utilization, and Storage (CCUS)**
- **Green Hydrogen and Emerging Energy Solutions**
- **Blockchain in Carbon Markets**
 - Transparency in Trading
 - Decentralized Carbon Registries
- **Role of AI and Big Data in Carbon Accounting**

Module 7: Capstone Project and Practical Applications (6 Hours)

- **Capstone Project**
 - Develop a Carbon Trading Strategy for a Business or Organization
 - Conduct Market Analysis and Develop Feasibility Reports

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- **Simulation Exercises**
 - Carbon Trading Platforms (e.g., ICE, EEX)
- **Presentation and Evaluation**

Features of the Programme

1. **Delivery Mode:** Hybrid (online and in-person lectures, workshops).
2. **Learning Resources:** Case studies, e-books, videos, and hands-on tools.
3. **Assessment:** Quizzes, assignments, and a final project evaluation.
4. **Certification:** Issued upon successful completion of all modules and assessments.

This program ensures participants gain both theoretical and practical expertise in carbon markets and trading, equipping them for careers in sustainability and climate change mitigation. Would you like to expand on any specific module?

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