

CARBON MARKETS & CARBON CREDITS

PROFESSIONAL TRAINING COURSE

Master Carbon Credits, Carbon Markets,
Project Development, MRV,
and Market Mechanisms.

Learn Today. Lead Tomorrow. Drive Climate Impact.



UNDERSTAND
the science behind
climate change



LEARN
how carbon
markets work



DISCOVER
how carbon credits
are created



UNLOCK
real opportunities
and drive impact

CERTIFICATE OF COMPLETION

Awarded by



**UTTARANCHAL
UNIVERSITY**
— DEHRADUN —

**NAAC
GRADE A+**



Successful participants will be
awarded a Certificate of Completion
by Uttaranchal University, Dehradun.



DATE
22 Aug, 2026



TIME
8:00 AM IST



DURATION
3 HOURS



FEES
INR 4,999/-
USD 49

WHAT YO J'LL LEARN



Climate Change &
Carbon Markets



Types of Carbon &
Greenhouse Gases



Carbon Credits
Explained



Compliance vs
Voluntary Markets



Carbon Credit
Project Types



Project Development
Lifecycle



MRV, Validation &
Verification



Standards &
Registries



Pricing &
Revenue



Future of Global
Carbon Markets

COURSE HIGHLIGHTS



Expert-Led Training



Practical Case Studies



Global & Indian
Market Insights



Course Notes & Resources



Certificate of Completion
from Uttaranchal University

WHO SHOULD ATTEND?



Sustainability & ESG Professionals



Environmental Consultants



Carbon Project Developers



Corporate Leaders



Entrepreneurs & Startups



Students & Researchers



Government Officials



WHY ATTEND?

Gain practical knowledge of carbon markets
and credits. Understand how projects are
developed, monitored, verified, and monetized.
Build the expertise to create climate impact
and new revenue opportunities.



REGISTER NOW!

✉ info@greenloopcleantech.com

🌐 www.greenloopcleantech.com



Driving Climate Impact
Through Innovation



In Collaboration for a
Sustainable Tomorrow



Carbon Credits Fundamentals

A Practical Introduction to Carbon Markets

Total Duration: 3 Hours

COURSE OVERVIEW

This course provides a comprehensive introduction to carbon credits and carbon markets. Participants will gain an understanding of the science behind greenhouse gas emissions, the functioning of carbon markets, the carbon credit project lifecycle, and the commercial opportunities associated with carbon finance. The course combines conceptual learning with practical examples and real-world case studies.

LEARNING OUTCOMES

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

- Understand climate change, greenhouse gases, and carbon emissions.
- Explain how carbon credits are created and traded.
- Differentiate between compliance and voluntary carbon markets.
- Identify projects eligible for carbon credits.
- Understand the carbon credit project development process.
- Explain the role of methodologies, MRV, validation, verification, and registries.
- Understand carbon credit buyers, pricing, and market dynamics.
- Evaluate the carbon credit potential of a project.

UNDERSTAND	LEARN	DISCOVER	UNLOCK
● The science behind climate change	● How carbon markets work	● How carbon credits are created	● Real opportunities and drive impact

MODULE 1

Climate Change and the Need for Carbon Markets

Duration: 25 Minutes

Participants will understand the scientific foundation of climate change and why carbon markets have emerged as a key climate mitigation tool.

1. Climate Change Fundamentals ● Weather vs climate ● Greenhouse effect ● Global warming ● Climate change drivers	2. Types of Carbon & Greenhouse Gases ● Carbon dioxide (CO₂) ● Methane (CH₄) ● Nitrous oxide (N₂O) ● Fluorinated gases ● GWP & CO₂e
3. Types of Carbon ● Fossil carbon ● Biogenic carbon ● Atmospheric carbon ● Soil carbon ● Blue carbon	4. Carbon Emissions ● Scope 1 emissions ● Scope 2 emissions ● Scope 3 emissions ● Major emission sectors
5. Global Climate Action ● Paris Agreement ● Nationally Determined Contributions (NDCs) ● Net Zero	6. Carbon Pricing ● Carbon Tax ● Emissions Trading Systems (ETS) ● Carbon Credits

MODULE 2

Carbon Credits Fundamentals

Duration: 35 Minutes

Participants will understand what carbon credits represent and the principles that determine whether emission reductions can become tradable carbon credits.

What is a Carbon Credit? ● Definition ● One Carbon Credit = One tonne CO₂e ● Carbon offsets vs carbon credits	Types of Carbon Credits ● Avoidance credits ● Reduction credits ● Removal credits
Carbon Credit Principles ● Additionality ● Baseline scenario ● Permanence ● Leakage ● Double counting ● Environmental integrity ● Conservativeness	Carbon Credit Standards ● Methodologies ● Eligibility requirements

INTERACTIVE ACTIVITY

Participants identify whether example projects are likely to generate carbon credits.

MODULE 3

Carbon Markets, Standards, and Project Types

Duration: 40 Minutes

Participants will understand where carbon credits are traded and the types of projects that generate them.

Carbon Markets

Compliance Markets ● EU ETS ● California Cap-and-Trade ● India's Carbon Credit Trading Scheme (CCTS)	Voluntary Carbon Market ● Corporate climate commitments ● Net Zero strategies ● Carbon neutrality
Carbon Standards ● Verra (VCS) ● Gold Standard ● Global Carbon Council (GCC) ● American Carbon Registry (ACR) ● Puro. Earth ● Isometric	Carbon Registries ● Registration ● Credit issuance ● Serial numbers ● Retirement

Carbon Credit Project Types

Nature Based ● Afforestation ● Reforestation ● Mangrove restoration	Agriculture ● Regenerative agriculture ● Soil carbon ● Livestock methane reduction
Renewable Energy ● Solar ● Wind ● Small hydro	Waste Management ● Landfill gas ● Wastewater ● Compressed Biogas (CBG)
Carbon Removal ● Biochar ● Enhanced Rock Weathering ● Bioenergy with Carbon Capture (BECCS)	

MODULE 4

Carbon Credit Project Development Lifecycle

Duration: 50 Minutes

Participants will understand the complete lifecycle of a carbon credit project from idea to issuance.

1 Project Identification	2 Eligibility Assessment
3 Methodology Selection	4 Baseline Development
5 Additionality Assessment	6 Project Design Document (PDD)
7 Validation	8 Registration
9 Monitoring	10 Measurement, Reporting & Verification (MRV)
11 Verification	12 Carbon Credit Issuance
13 Commercialization	14 Retirement

Stakeholders

Key Stakeholders • Project developer • Technology provider • Consultant • Validation and Verification Body (VVB) • Registry • Credit buyers • Investors	Commercialization Involves • Selling carbon credits • Buyers • Brokers • Exchanges
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MODULE 5

Carbon Credit Economics and Market Outlook

Duration: 20 Minutes

Participants will understand the commercial aspects of carbon credits and future market trends.

Carbon Credit Pricing • Supply and demand • Quality • Co-benefits • Project type • Buyer preferences	Revenue Generation • Carbon credits as an additional revenue stream • Factors affecting profitability
Market Risks • Regulatory risk • Market risk • Reversal risk • Integrity concerns	Future Trends • Article 6 markets • India's carbon market • High-integrity carbon markets • Digital MRV • AI in carbon markets • Carbon removals • Biodiversity and nature markets

MODULE 6

Interactive Exercise and Q&A

Duration: 10 Minutes

Participants evaluate whether selected projects could qualify for carbon credits.

Example Projects

Projects for Discussion

- Solar power plant
- Biochar production
- CBG plant
- Regenerative agriculture
- Industrial energy efficiency
- Plastic recycling
- Mangrove restoration

GROUP DISCUSSION

Which methodology could apply? What emissions are reduced or removed? What data would need to be monitored?

Course Summary

Module	Topic	Duration
1	Climate Change and the Need for Carbon Markets	25 min
2	Carbon Credits Fundamentals	35 min
3	Carbon Markets, Standards, and Project Types	40 min
4	Carbon Credit Project Development Lifecycle	50 min
5	Carbon Credit Economics and Market Outlook	20 min
6	Interactive Exercise and Q&A	10 min
	Total	180 min (3 hrs)

COURSE DELIVERABLES

Participants will receive:

- Comprehensive course presentation
- Carbon Credit Project Lifecycle infographic
- Carbon Market Ecosystem diagram
- Carbon Credit Project Eligibility Checklist
- Comparison of major standards and registries
- Glossary of carbon market terminology
- List of major carbon credit project categories
- Certificate of Completion by Uttaranchal University, Dehradun

ENROLL IN THE COURSE

22st August, 8:00 AM IST , Fees 49 USD | ₹4,999/-

► **REGISTER & PAY NOW**

<https://rzp.io/rzp/tCCrYF23>

Questions? info@greenloopcleantech.com | www.greenloopcleantech.com



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Empowering Climate Action Through Carbon Markets and Sustainability Solutions