Fundamentals of Carbon Management: A 1-Week Intensive Course

22 – 26 February 2027
Tokyo (Japan)



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Why This Course

Carbon management has become an essential capability for organizations seeking to reduce emissions, respond to climate-related expectations, improve sustainability performance, and prepare for a low-carbon economy. Businesses are increasingly expected to measure their greenhouse gas emissions, report transparently, set reduction targets, and implement practical strategies that support long-term environmental and commercial resilience.

This intensive 1-week Carbon Management Training program provides participants with a practical introduction to carbon management principles, greenhouse gas accounting, emissions reduction strategies, carbon markets, offsetting, and implementation planning. The course combines climate science, reporting standards, carbon footprint assessment, reduction planning, market mechanisms, stakeholder engagement, and MRV practices. Through applied exercises and real-world examples, participants will learn how to develop and implement effective carbon management plans for their organizations.

What You'll Learn and Practice

By joining this program, you will:

- Understand climate change science and its implications for businesses.
- Explore carbon management principles, frameworks, and policy drivers.
- Conduct basic organizational carbon footprint assessments.
- Apply greenhouse gas accounting methodologies and reporting standards.
- Understand Scope 1, Scope 2, and Scope 3 emissions.
- Collect, manage, and validate emissions data.
- Develop carbon disclosure and reporting practices.
- Design carbon reduction strategies across operations and value chains.
- Apply energy efficiency, renewable energy, sustainable transport, and logistics solutions.
- Set carbon-neutral and net-zero targets.
- Analyze carbon pricing, trading, compliance markets, and voluntary carbon markets.
- Evaluate carbon offset projects and develop offsetting strategies.
- Apply monitoring, reporting, and verification practices.
- Explore emerging trends and technologies in carbon management.



The Program Flow

Day 1: Introduction to Carbon Management

- Understand the fundamentals of climate change science and the policy landscape.
- Explore carbon management principles and their role in business sustainability.
- Identify key carbon management frameworks and implementation approaches.
- Conduct an introductory organizational carbon footprint assessment.
- Understand the basics of greenhouse gas accounting.

Day 2: Greenhouse Gas Accounting and Reporting

- Understand the GHG Protocol and other carbon accounting standards.
- Differentiate between Scope 1, Scope 2, and Scope 3 emissions.
- Apply data collection methods for emissions measurement.
- Improve data quality, consistency, and traceability.
- Develop carbon disclosure and reporting practices for stakeholders and regulatory needs.

Day 3: Carbon Reduction Strategies

- Identify carbon reduction opportunities across business operations.
- Apply energy efficiency and renewable energy solutions.
- Develop sustainable transportation and logistics strategies.
- Manage supply chain emissions and engage suppliers in reduction efforts.
- Set carbon-neutral and net-zero targets aligned with organizational priorities.

Day 4: Carbon Markets and Offsetting

- Understand carbon pricing and carbon trading mechanisms.
- Compare compliance carbon markets and voluntary carbon markets.
- Explore carbon offset project types and verification standards.
- Evaluate carbon offset quality, credibility, and suitability.
- Develop offsetting strategies that support broader emissions reduction plans.

Day 5: Implementing Carbon Management Plans

- Develop a structured carbon management strategy.
- Build stakeholder engagement and communication approaches.
- Apply monitoring, reporting, and verification practices.
- Track progress against carbon reduction targets and performance indicators.
- Explore emerging technologies and trends shaping carbon management.



Individual Impact

- Build confidence in understanding and applying carbon management practices.
- Strengthen skills in carbon footprint assessment and greenhouse gas accounting.
- Improve the ability to design practical emissions reduction strategies.
- Gain knowledge of carbon markets, offsets, and reporting requirements.
- Develop stronger capability in stakeholder communication and carbon planning.

Work Impact

- Improve organizational readiness for carbon reporting and climate-related expectations.
- Support emissions reduction through structured carbon management plans.
- Strengthen sustainability performance and stakeholder confidence.
- Improve decision-making around carbon offsets, markets, and net-zero pathways.
- Enable better monitoring, reporting, and verification of carbon initiatives.

Training Methodology

This program combines carbon management concepts with practical application through:

- Climate science and carbon management framework discussions.
- Carbon footprint assessment exercises.
- GHG accounting and emissions data collection workshops.
- Carbon reduction planning and target-setting activities.
- Carbon market and offset evaluation case studies.
- MRV, stakeholder communication, and carbon management plan development exercises.

Beyond the Course

Upon completion, participants will be able to:

- Conduct basic organizational carbon footprint assessments.
- Apply greenhouse gas accounting methods and reporting standards.
- Develop carbon reduction strategies for their organizations.
- Evaluate carbon offset projects and carbon market opportunities.
- Create comprehensive carbon management plans.
- Monitor, report, and communicate carbon performance more effectively.

