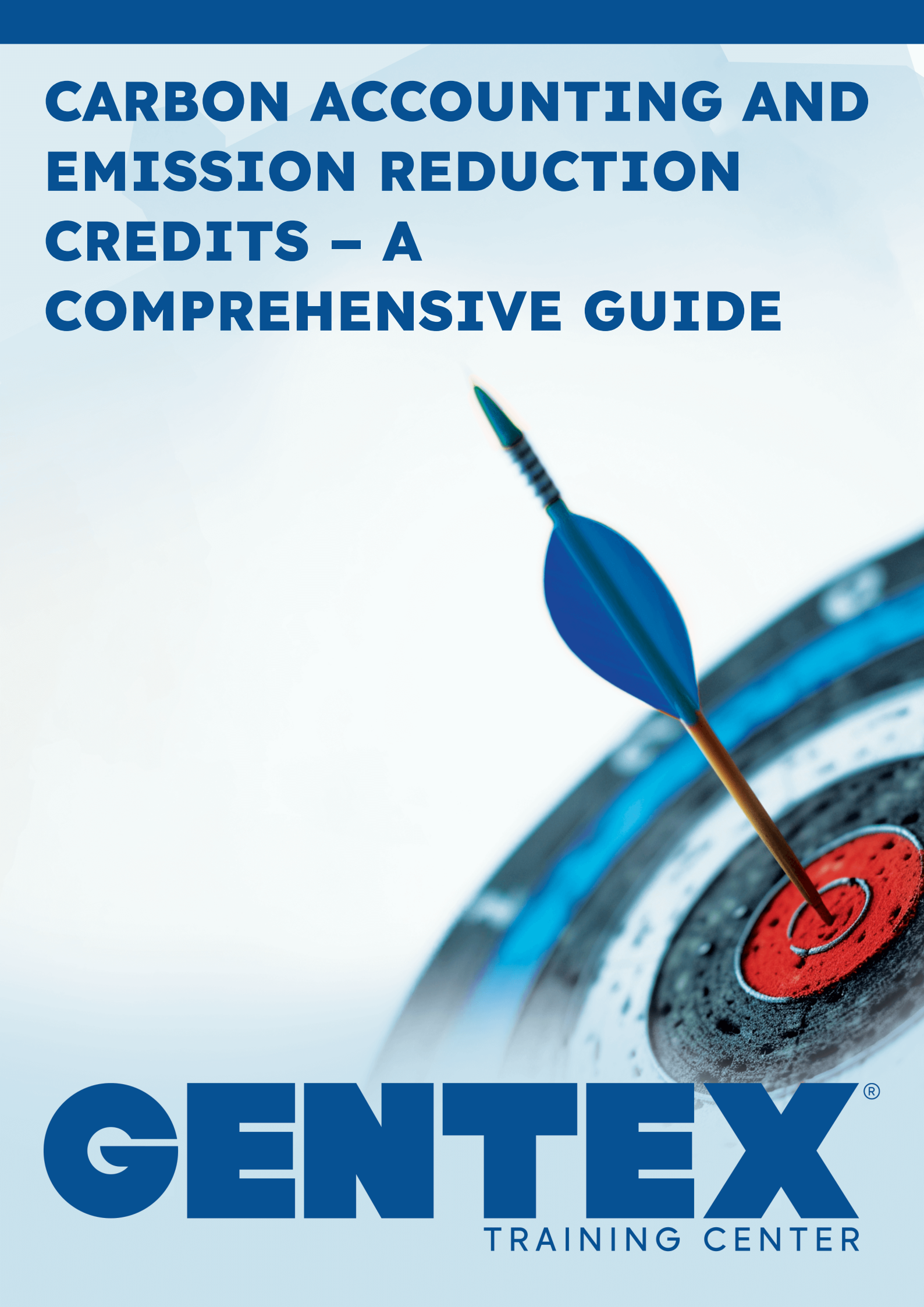
CARBON ACCOUNTING AND EMISSION REDUCTION CREDITS – A COMPREHENSIVE GUIDE



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Introduction

Carbon Accounting and Emission Reduction Credits A Comprehensive Guide Training Course builds the capability organisations need to measure emissions, account for them credibly, and use carbon credits properly. Climate reporting has moved from voluntary disclosure to regulated expectation, and errors in carbon accounting now carry financial and reputational consequences. This course covers the full chain. It explains emission sources, calculation methods, and reporting boundaries. Furthermore, it applies the GHG Protocol, Scope 1, 2 and 3 accounting, emission factors, and carbon credit mechanisms. In addition, it develops verification, assurance, and reduction strategy design. As a result, participants measure and report emissions with accuracy and confidence.

Carbon Accounting and Emission Reduction Credits A Comprehensive Guide Course Objectives

- Explain climate change drivers, policy context, and corporate obligations.
- Apply the GHG Protocol Corporate Standard to emission accounting.
- Define organisational and operational boundaries for reporting.
- Calculate Scope 1 emissions from fuel and process sources.
- Calculate Scope 2 emissions using location and market-based methods.
- Assess material Scope 3 emissions across the value chain.
- Apply emission factors, activity data, and uncertainty assessment.
- Explain carbon credit types, standards, and certification bodies.
- Evaluate credit quality, additionality, and permanence risk.
- Design emission reduction strategies and net-zero transition plans.

Course Methodology

- Interactive lectures with real carbon accounting and credit cases.

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- Emission calculation workshops using activity data and emission factors.
- Scope 3 screening and boundary setting exercises.
- Credit evaluation and due diligence practice.
- Structured peer review with facilitator feedback on reduction strategies.

Who Should Take This Course

- Sustainability and ESG professionals.
- Environmental and HSE managers.
- Finance and reporting professionals covering ESG disclosure.
- Energy managers and operations staff measuring emissions.
- Procurement and supply chain sustainability staff.
- Internal auditors and assurance professionals.

Carbon Accounting and Emission Reduction Credits A Comprehensive Guide Course Outlines

Day 1: Climate Context and Carbon Accounting Foundations

- Climate science essentials and policy landscape.
- Paris Agreement, national commitments, and corporate targets.
- The GHG Protocol suite and related reporting frameworks.
- Organisational boundary: control and equity share approaches.
- Operational boundary and inclusion criteria.
- Base year selection and recalculation policy.

- Case study: setting boundaries for a multi-site organisation.

Day 2: Scope 1 and Scope 2 Emissions Accounting

- Scope 1 sources: stationary combustion, mobile, fugitive, process.
- Activity data collection and quality assessment.
- Emission factor sources and selection criteria.
- Refrigerant and fugitive emission calculation.
- Scope 2 location-based and market-based methods.
- Renewable energy certificates and contractual instruments.
- Workshop: calculating Scope 1 and Scope 2 emissions.

Day 3: Scope 3 and Value Chain Emissions

- Scope 3 categories across upstream and downstream.
- Materiality screening and prioritisation.
- Purchased goods, services, and capital goods calculation.
- Transport, distribution, and business travel emissions.
- Use of sold products and end-of-life treatment.
- Supplier engagement and primary data collection.
- Workshop: screening Scope 3 categories for materiality.

Day 4: Carbon Credits and Market Mechanisms

- Voluntary and compliance carbon markets explained.
- Credit types: avoidance, reduction, removal, and sequestration.
- Standards and certification bodies for credit issuance.
- Additionality, baselines, and measurement methodologies.

- Permanence, leakage, and double counting risks.
- Credit quality assessment and due diligence.
- Workshop: evaluating a carbon credit for purchase.

Day 5: Reduction Strategy, Reporting, and Assurance

- Emission reduction hierarchy: avoid, reduce, substitute, offset.
- Abatement cost curve construction and prioritisation.
- Science-based targets and net-zero transition planning.
- Carbon reporting, disclosure, and assurance readiness.
- Verification bodies, evidence, and audit expectations.
- Governance of carbon data and internal control.
- Course review, assessment, and action planning.

Conclusion

By successfully completing Carbon Accounting and Emission Reduction Credits A Comprehensive Guide, participants will gain a thorough understanding of carbon accounting foundations, Scope 1 and 2 emission calculation, Scope 3 value chain accounting, carbon credit mechanisms and quality assessment, and emission reduction strategy and assurance. They will also acquire practical skills in emission boundary setting and calculation, Scope 1, 2 and 3 emission accounting, carbon credit evaluation and due diligence, and reduction strategy design and reporting assurance. In addition, the course prepares them to measure, report, and reduce emissions with credible evidence. Gentex Training Center delivers this programme with a strong focus on applied carbon accounting practice and defensible climate reporting.

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FAQs for Carbon Accounting and Emission Reduction Credits A Comprehensive Guide course

Q1 What is the "Carbon Accounting and Emission Reduction Credits A Comprehensive Guide" course about?

It is a five-day programme on measuring and accounting for greenhouse gas emissions and using carbon credits properly. It covers the GHG Protocol, reporting boundaries, Scope 1, 2 and 3 calculation, emission factors, carbon market mechanisms and credit quality, and emission reduction strategy.

Q2 What are the key benefits of the "Carbon Accounting and Emission Reduction Credits A Comprehensive Guide" course?

Participants produce carbon data that stands up to verification and disclosure. The course improves boundary setting and activity data quality, sharpens Scope 1, 2 and 3 calculation, strengthens credit due diligence and additionality assessment, reduces greenwashing and double counting risk, improves assurance readiness, and supports credible reduction planning.

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Q3 What skills will I gain from the "Carbon Accounting and Emission Reduction Credits A Comprehensive Guide" course?

Participants gain emission boundary setting and calculation, Scope 1, 2 and 3 emission accounting, carbon credit evaluation and due diligence, and reduction strategy design and reporting assurance. These four skills cover the practical core of carbon accounting and credit management.

Q4 What tools, methods, or standards are covered in the "Carbon Accounting and Emission Reduction Credits A Comprehensive Guide" course?

The course covers the GHG Protocol Corporate Standard and related frameworks, organisational boundary setting using control and equity share approaches, operational boundary definition, base year selection and recalculation policy, Scope 1 stationary combustion, mobile, fugitive and process source calculation, activity data collection and quality assessment, emission factor sources and selection, refrigerant and fugitive emission calculation, Scope 2 location-based and market-based methods, renewable energy certificates and contractual instruments, Scope 3 categories across upstream and downstream, materiality screening, purchased goods, services and capital goods calculation, transport, distribution and business travel emissions, use of sold products and end-of-life treatment, supplier engagement and primary data collection, voluntary and compliance carbon markets, avoidance, reduction, removal and sequestration credit types, credit standards and certification bodies, additionality and baseline setting, measurement methodologies, permanence, leakage and double counting risk, credit quality assessment and due diligence, the emission reduction hierarchy, marginal abatement cost curve construction, science-based targets, net-zero transition planning, disclosure requirements, verification and assurance expectations, and carbon data governance.

Q5 How is the "Carbon Accounting and Emission Reduction Credits A Comprehensive Guide" course applied in real-world practice?

Participants apply the methods to their own organisations. They set reporting boundaries, collect and quality-check activity data, calculate Scope 1 and 2 emissions, screen and estimate Scope 3 categories, evaluate carbon credits for purchase, build reduction plans with abatement cost curves, prepare disclosure information, and assemble verification evidence. Many leave with a boundary-setting checklist, an emission calculation workbook, and a credit due diligence template ready to use.