



GHG Verification and Validation Course: ISO 14064-3, ISO 14065 and Carbon Project MRV



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Introduction:

GHG verification and validation course on ISO 14064-3, ISO 14065 and carbon project MRV is a 5-day course for verifiers, internal assurance teams and carbon project developers, ending with a Verification Engagement Pack. Emission statements and carbon credit projects are often rejected or qualified because engagements are scoped loosely, materiality is undefined, samples miss high-risk sources and opinions are worded without support. Nominees already review emissions data or prepare projects for third-party checks and work through case studies on real statements, monitoring reports and design documents. CoreConcept Training Center delivers this GHG verification and validation course.

Course Objectives:

- Plan an ISO 14064-3 verification or validation engagement with agreed objectives, criteria, scope and level of assurance
- Set quantitative and qualitative materiality thresholds and design a risk-based evidence-gathering and sampling plan
- Trace reported tonnes back through calculation files, meter records and controls to source evidence
- Validate a carbon project design document against ISO 14064-2 baseline, additionality and monitoring requirements
- Verify a project monitoring report and the claimed reductions or removals before credit issuance
- Draft a verification or validation statement with a supported opinion, findings log and qualification wording

Target Audience:

- Verification and validation managers responsible for leading engagements on organisation and project GHG statements
 - Internal assurance and audit managers responsible for second-line review of emissions data before external verification
 - Carbon project development managers responsible for preparing design documents and monitoring reports for validation
 - Quality and impartiality managers responsible for the management system of a validation and verification body
 - Environmental data managers responsible for responding to verifier requests, findings and corrective actions
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Course Outline:

Day 1: Verification and Validation Foundations and Engagement Acceptance

- ISO 14064 Family Roles of Parts One, Two and Three
- Verification Versus Validation Purpose, Timing and Statement Types
- GHG Programme Rules Layered Over the Programme-Neutral Standard
- Engagement Acceptance Checks for Competence and Conflict of Interest
- Reasonable and Limited Assurance Choice and Its Consequences

Day 2: ISO 14064-3 Process and ISO 14065 Body Requirements

- ISO 14064-3 Engagement Stages From Planning to Opinion
- Agreeing Objectives, Criteria and Scope With the Responsible Party
- ISO 14065 Impartiality Safeguards and Risk Analysis for Verification Bodies
- ISO/IEC 17029 Competence Records, Independent Review and Decision
- Verification Team Roles From Lead Verifier to Technical Expert

Day 3: Materiality, Risk Assessment, Sampling and Data Trails

- Materiality Threshold Setting for Quantitative and Qualitative Misstatements
- Strategic Analysis of Emission Sources and Control Environment
- Risk Assessment Matrix Linking Inherent and Control Risk
- Evidence-Gathering Plan and Statistical Versus Judgemental Sampling
- Data Trail Testing From Meter Readings to Reported Tonnes

Day 4: Carbon Project Validation, Monitoring Verification and Problem Findings

- ISO 14064-2 Project Design Document Validation Checklist
- Baseline Scenario, Additionality Evidence and Leakage Review
- Monitoring Plan Conformity and Project Monitoring Report Verification
- Misstatement Aggregation, Nonconformity Grading and Corrective Action Requests
- Opinion Types Including Qualified, Adverse and Disclaimer Wording

Day 5: Case Study Practice and the Verification Engagement Pack

- Industrial Site Case Engagement Plan and Materiality Setting
 - Logistics Fleet Case Sampling Plan and Data Trail Test
 - Renewable Energy Project Case Monitoring Report Verification
 - Findings Log Clearance and Independent Reviewer Challenge
 - Verification Engagement Pack Completion and Draft Statement Defence
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Skills You Will Gain:

- Assurance Engagement Planning
- Materiality Judgement
- Risk-Based Sampling Design
- Audit Trail Testing
- Project Baseline Review
- Monitoring Report Verification
- Impartiality Risk Management
- Verification Opinion Writing

Why Attend This Course:

- Deliver a Verification Engagement Pack to the verification body technical reviewer or the head of internal assurance for adoption on the next engagement
- Decide the level of assurance, materiality threshold and sample size an engagement needs before fieldwork begins
- Avoid rejected statements, reissued opinions and delayed credit issuance caused by thin evidence or unsupported conclusions
- Coach data owners and project teams with the data trail test sheet, findings log and design document checklist

Conclusion:

Back at work, the participant hands the Verification Engagement Pack to the technical reviewer of the verification body, the head of internal assurance or the carbon project lead. They use it to fix the engagement scope, level of assurance, materiality threshold and sample before fieldwork, and to judge whether a statement or monitoring report is ready for an opinion. After the first engagement run on the pack, the unit should review findings raised, sampling coverage and review challenges against the plan and adjust the thresholds and checklists.

Frequently Asked Questions FAQ:

What should participants know before a GHG verification and validation course?

Participants should be able to read an emissions inventory or a carbon project document and understand scopes, emission factors and tonnes of CO2 equivalent. Some audit or review experience helps. An anonymised statement or monitoring report is useful for the case study day.

How does a GHG verification and validation course differ from a carbon accounting course?

A carbon accounting course teaches how to build an emissions inventory and set targets. This course works from the reviewer side: planning an engagement, setting materiality, sampling, testing data trails, validating project design and issuing a supported verification opinion.

Why does GHG verification and validation use a materiality threshold?

A materiality threshold defines how large an error or omission can be before it would change a user's decision. It steers where the verifier samples and tests, and it decides whether findings lead to a clean, qualified or adverse opinion.

What do participants take back from GHG verification and validation training?

Participants take back a Verification Engagement Pack for a case organisation and a case carbon project, holding the verification plan, risk assessment, sampling plan, data trail tests, findings log and a draft verification statement ready for technical review.