

LAPT

LONDON ACADEMY OF PROFESSIONAL TRAINING

CERTIFICATE

ISO 14064-1 — Greenhouse Gases Quantification at Organisation Level

ISO Certification Programme



LAPT — London Academy of Professional Training

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Reference ENV-CCH-14064-1 • ISO Environmental Sustainability

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AT A GLANCE

REFERENCE	ENV-CCH-14064-1
AWARD	Certificate
ASSESSMENT	430 marks — 258 to pass (60%)
PREREQUISITES	None
VALIDITY	Lifetime
AWARDING BODY	LAPT — London Academy of Professional Training

CURRICULUM

1

Compliance and Best Practices

5 chapters · 30 classes 45 marks

• 1 Understanding ISO 14064-1 Standards and Framework — 6 classes

› 1.1 Define ISO 14064-1 and Its Importance in GHG Management

› 1.2 Explore the Key Components of the ISO 14064-1 Standard

› 1.3 Identify the Roles and Responsibilities Under ISO 14064-1

› 1.4 Explain the GHG Inventory Development Process in ISO 14064-1

› 1.5 Discuss Compliance Strategies for ISO 14064-1 Implementation

› 1.6 Evaluate Best Practices for GHG Quantification and Reporting

• 2 Greenhouse Gas Inventories: Components and Methodologies — 6 classes

› 2.1 Identify Key Components of Greenhouse Gas Inventories

› 2.2 Understand the Importance of Accurate Quantification Methodologies

› 2.3 Explore Various Data Collection Methods for Emission Sources

› 2.4 Assess the Role of Emission Factors in GHG Calculation

› 2.5 Analyze Reporting Standards and Requirements for Compliance

› 2.6 Implement Best Practices for Continuous Improvement in GHG Management

• 3 Developing an Effective Greenhouse Gas Management Plan — 6 classes

› 3.1 Assess Current Greenhouse Gas Emissions in Your Organisation

› 3.2 Identify Key Stakeholders and Their Roles in GHG Management

› 3.3 Set Realistic Goals for Greenhouse Gas Reduction

› 3.4 Develop Strategies for Emission Reduction Initiatives

› 3.5 Implement Monitoring and Reporting Mechanisms for GHG Emissions

› 3.6 Review and Adjust the Greenhouse Gas Management Plan Regularly

• 4 Verification and Validation of Emission Reports — 6 classes

› 4.1 Understand Verification Processes for Emission Reports

› 4.2 Explore Validation Techniques in Emission Reporting

› 4.3 Identify Key Stakeholders in Emission Report Verification

› 4.4 Analyze Common Challenges in Emission Data Verification

› 4.5 Implement Best Practices for Accurate Emission Reporting

› 4.6 Evaluate the Impact of Effective Verification on Compliance

• 5 Continuous Improvement and Reporting Practices — 6 classes

› 5.1 Identify Key Performance Indicators for GHG Reporting

› 5.2 Evaluate Data Collection Methods for Continuous Improvement

› 5.3 Analyze Trends in Greenhouse Gas Emissions Over Time

› 5.4 Engage Stakeholders in Sustainability Reporting Practices

› 5.5 Develop Action Plans Based on Reporting Findings

› 5.6 Implement Strategies for Enhancing GHG Reduction Efforts

• 1 Understanding Greenhouse Gas Inventories and Their Importance — 6 classes

- › 1.1 Define Greenhouse Gas Inventories and Their Components
- › 1.2 Explain the Purpose and Importance of Greenhouse Gas Inventories
- › 1.3 Identify Different Sources of Greenhouse Gas Emissions
- › 1.4 Differentiate Between Direct and Indirect Emissions
- › 1.5 Discuss Best Practices for Collecting Emission Data
- › 1.6 Apply Methodologies for Reporting Greenhouse Gas Inventories

• 2 Data Collection Techniques for Greenhouse Gas Reporting — 6 classes

- › 2.1 Identify Key Data Sources for Greenhouse Gas Reporting
- › 2.2 Evaluate Data Collection Methods for Accuracy and Reliability
- › 2.3 Implement Data Management Systems for Greenhouse Gas Tracking
- › 2.4 Develop Standard Operating Procedures for Data Collection
- › 2.5 Analyze Data Quality and Integrity for Reporting Purposes
- › 2.6 Communicate Data Findings and Reporting Requirements Effectively

• 3 Data Quality Assurance and Control in GHG Reporting — 6 classes

- › 3.1 Identify Key Data Quality Metrics for GHG Reporting
- › 3.2 Assess Data Sources for Validity and Reliability
- › 3.3 Implement Data Quality Assurance Procedures
- › 3.4 Analyze Common Data Quality Issues in GHG Reporting
- › 3.5 Develop a Data Quality Control Plan
- › 3.6 Evaluate the Impact of Data Quality on GHG Reporting Outcomes

• 4 Data Management Systems for Reporting and Verification — 6 classes

- › 4.1 Identify Key Data Requirements for ISO 14064-1 Compliance
- › 4.2 Develop a Data Management Plan for Greenhouse Gas Reporting
- › 4.3 Implement Data Collection Methods for Accurate Reporting
- › 4.4 Analyze Data Quality and Integrity for Verification Purposes
- › 4.5 Utilize Software Tools for Efficient Data Management
- › 4.6 Present Data Findings for Stakeholder Engagement and Decision-Making

• 5 Interpreting and Presenting GHG Data for Stakeholder Engagement — 6 classes

- › 5.1 Analyze GHG Data Trends for Effective Stakeholder Communication
- › 5.2 Identify Key Stakeholder Needs in GHG Reporting
- › 5.3 Visualize GHG Data for Enhanced Understanding and Engagement
- › 5.4 Develop Tailored Messaging Strategies for Diverse Stakeholders
- › 5.5 Implement Feedback Mechanisms for Continuous Improvement in Reporting
- › 5.6 Create an Action Plan for Engaging Stakeholders with GHG Data

• 1 Fundamentals of Greenhouse Gas Emissions — 6 classes

- › 1.1 Define Greenhouse Gas Emissions and Their Impact
- › 1.2 Identify Key Greenhouse Gases and Their Sources
- › 1.3 Differentiate Between Direct and Indirect Emissions
- › 1.4 Explain the Importance of Emission Quantification
- › 1.5 Explore Common Emission Quantification Techniques
- › 1.6 Apply Emission Quantification Techniques in Case Studies

• 2 Emission Inventory Development and Management — 6 classes

- › 2.1 Define Key Concepts in Emission Inventory Development
- › 2.2 Identify Sources of Greenhouse Gas Emissions
- › 2.3 Collect and Compile Emission Data Effectively
- › 2.4 Utilize Software Tools for Emission Inventory Management
- › 2.5 Analyze and Interpret Emission Inventory Results
- › 2.6 Develop an Action Plan for Emission Reduction Strategies

• 3 Quantification Methods for Direct Emissions — 6 classes

- › 3.1 Identify Key Sources of Direct Emissions in Organisations
- › 3.2 Understand the Basics of Emission Factor Calculation
- › 3.3 Apply Emission Factors to Quantify Direct Emissions
- › 3.4 Evaluate the Use of Different Quantification Approaches
- › 3.5 Analyze Case Studies of Direct Emission Quantification
- › 3.6 Develop a Direct Emissions Reporting Template for Organisations

• 4 Quantification Methods for Indirect Emissions — 6 classes

- › 4.1 Identify Indirect Emissions Sources
- › 4.2 Analyze Scope 2 Emissions Calculations
- › 4.3 Examine Scope 3 Emissions Categories
- › 4.4 Implement Data Collection Strategies for Indirect Emissions
- › 4.5 Evaluate Emission Factors and Their Application
- › 4.6 Develop a Comprehensive Indirect Emissions Report

• 5 Reporting and Communicating Emission Results — 6 classes

- › 5.1 Understand Key Principles of Emission Reporting
- › 5.2 Identify Key Stakeholders in Emission Communication
- › 5.3 Select Appropriate Metrics for Emission Quantification
- › 5.4 Develop a Standardized Emission Reporting Template
- › 5.5 Analyze Case Studies of Effective Emission Communication
- › 5.6 Create a Communication Strategy for Emission Results

• 1 Understanding Greenhouse Gases and Their Impact — 6 classes

- › 1.1 Define Greenhouse Gases and Their Types
- › 1.2 Explore the Sources of Greenhouse Gas Emissions
- › 1.3 Analyze the Impact of Greenhouse Gases on Climate Change
- › 1.4 Evaluate the Global and Local Effects of Climate Change
- › 1.5 Discuss the Importance of ISO 14064-1 for Organizations
- › 1.6 Identify Strategies for Reducing Greenhouse Gas Emissions

• 2 Overview of ISO 14064-1 Standards — 6 classes

- › 2.1 Define ISO 14064-1 Standards and Their Importance
- › 2.2 Explore the Scope and Application of ISO 14064-1
- › 2.3 Identify Key Terms and Concepts in Greenhouse Gas Reporting
- › 2.4 Discuss the Role of Stakeholders in ISO 14064-1 Implementation
- › 2.5 Analyze the Benefits of Adopting ISO 14064-1 for Organizations
- › 2.6 Develop a Basic Framework for Implementing ISO 14064-1 in Your Organization

• 3 Organisational Boundaries and Reporting Requirements — 6 classes

- › 3.1 Define Organisational Boundaries in the Context of ISO 14064-1
- › 3.2 Identify Different Types of Organisational Boundaries
- › 3.3 Evaluate the Implications of Boundary Definitions on Emission Reporting
- › 3.4 Compare the Different Reporting Requirements under ISO 14064-1
- › 3.5 Analyze Case Studies on Effective Boundary Setting and Reporting
- › 3.6 Implement Best Practices for Documenting Organisational Boundaries

• 4 Quantification Approaches and Methodologies — 6 classes

- › 4.1 Understand the Framework of ISO 14064-1
- › 4.2 Identify Key Definitions in Greenhouse Gas Quantification
- › 4.3 Explore Different Approaches to Quantification
- › 4.4 Analyze Methodologies for Collecting Greenhouse Gas Data
- › 4.5 Evaluate the Challenges in Quantifying Emissions
- › 4.6 Apply Quantification Techniques to Real-World Scenarios

• 5 Implementation and Verification of Greenhouse Gas Management — 6 classes

- › 5.1 Understand the Key Principles of ISO 14064-1
- › 5.2 Identify Steps for Effective Greenhouse Gas Management Implementation
- › 5.3 Assess the Role of Leadership in GHG Management
- › 5.4 Explore Tools and Techniques for Quantifying GHG Emissions
- › 5.5 Learn the Verification Process for GHG Inventories
- › 5.6 Develop an Action Plan for Continuous Improvement in GHG Management

• 1 Understanding ISO 14064-1: Framework and Principles — 6 classes

- › 1.1 Explore the Purpose and Scope of ISO 14064-1
- › 1.2 Identify Key Principles of Greenhouse Gas Quantification
- › 1.3 Analyze the Structure of ISO 14064-1 Documentation
- › 1.4 Discuss the Importance of Stakeholder Engagement in GHG Accounting
- › 1.5 Evaluate Case Studies on Effective Implementation of ISO 14064-1
- › 1.6 Create an Action Plan for Applying ISO 14064-1 in Your Organization

• 2 Setting the Stage: Defining the Organizational Boundaries — 6 classes

- › 2.1 Understand the Importance of Organizational Boundaries in GHG Reporting
- › 2.2 Identify Key Concepts of Organizational Boundaries and GHG Protocols
- › 2.3 Distinguish Between Operational and Financial Control in Boundary Setting
- › 2.4 Analyze Different Approaches to Define Organizational Boundaries
- › 2.5 Evaluate the Impact of Boundary Selection on GHG Emissions Reporting
- › 2.6 Apply Boundary Definitions to a Real-world Organizational Case Study

• 3 Data Collection and Management for GHG Quantification — 6 classes

- › 3.1 Identify Key GHG Sources in Your Organisation
- › 3.2 Select Appropriate Data Collection Methods for GHG Accounting
- › 3.3 Develop a Data Management Plan for GHG Quantification
- › 3.4 Implement Data Collection Processes for Accurate GHG Reporting
- › 3.5 Evaluate Data Quality and Reliability in GHG Inventory
- › 3.6 Use Data Analysis Techniques to Improve GHG Management

• 4 Implementing GHG Projects: Procedures and Methodologies — 6 classes

- › 4.1 Define GHG Project Objectives and Goals
- › 4.2 Identify Stakeholders and Collaborators in GHG Projects
- › 4.3 Develop a Comprehensive GHG Project Plan
- › 4.4 Implement GHG Quantification Methodologies
- › 4.5 Monitor and Evaluate GHG Project Performance
- › 4.6 Report and Communicate GHG Project Outcomes

• 5 Evaluating Project Outcomes: Assessment and Reporting — 6 classes

- › 5.1 Identify Key Performance Indicators for Project Outcomes
- › 5.2 Collect and Analyze Data on Project Performance
- › 5.3 Assess Environmental Impact of Project Activities
- › 5.4 Utilize Evaluation Frameworks for Project Reporting
- › 5.5 Communicate Evaluation Results to Stakeholders
- › 5.6 Develop Action Plans Based on Evaluation Findings

• 1 Understanding Climate Change and Greenhouse Gas Emissions

— 6 classes

- › 1.1 Define Climate Change and Its Impact on the Environment
- › 1.2 Identify Key Greenhouse Gases and Their Sources
- › 1.3 Explain the Role of Organizations in Greenhouse Gas Emissions
- › 1.4 Analyze the Importance of Measuring Greenhouse Gas Emissions
- › 1.5 Assess Current Strategies for Climate Change Mitigation
- › 1.6 Develop an Action Plan for Emission Reduction within Your Organization

• 2 Frameworks for Strategic Climate Change Management — 6

classes

- › 2.1 Identify Key Frameworks for Strategic Climate Change Management
- › 2.2 Analyze the Role of ISO 14064-1 in Organizational Climate Strategies
- › 2.3 Evaluate Best Practices for Greenhouse Gas Quantification
- › 2.4 Develop Action Plans Based on Framework Analysis
- › 2.5 Integrate Stakeholder Engagement in Climate Management Frameworks
- › 2.6 Assess Long-term Outcomes of Implemented Climate Strategies

• 3 Quantitative Techniques for Emission Inventory Development — 6

classes

- › 3.1 Identify Key Sources of Greenhouse Gas Emissions
- › 3.2 Collect and Organise Relevant Emission Data
- › 3.3 Apply Quantitative Methods for Emission Calculation
- › 3.4 Evaluate Data Quality and Reliability for Inventory
- › 3.5 Use Software Tools for Emission Inventory Management
- › 3.6 Develop an Action Plan Based on Emission Results

• 4 Strategic Implementation of Greenhouse Gas Reduction Plans —

6 classes

- › 4.1 Assess Current Greenhouse Gas Emissions
- › 4.2 Identify Key Stakeholders and Responsibilities
- › 4.3 Develop Measurable Reduction Targets
- › 4.4 Design Actionable Greenhouse Gas Reduction Strategies
- › 4.5 Integrate Reduction Plans into Corporate Strategy
- › 4.6 Monitor Progress and Adapt Strategies as Needed

• 5 Monitoring, Reporting, and Verification of Climate Strategies — 6

classes

- › 5.1 Identify Key Indicators for Monitoring Climate Strategies
- › 5.2 Establish Systems for Data Collection and Storage
- › 5.3 Analyze Data to Assess Climate Strategy Effectiveness
- › 5.4 Develop Comprehensive Reporting Frameworks
- › 5.5 Implement Verification Processes for Climate Impact Reports
- › 5.6 Communicate Findings and Adapt Strategies for Improvement