ISO 14064 Training Course Outline (4 Days)

Training services covering **ISO 14064-1**, **14064-2**, and **14064-3** focus on greenhouse gas (GHG) emissions quantification, monitoring, reporting, and verification. Here's an overview of each standard and the type of training services that can be provided:

Overview of ISO 14064 Standards

1. **ISO 14064-1: Specification with Guidance at the Organization Level for Quantification and Reporting of Greenhouse Gas Emissions and Removals**
    - Focus: Guidelines for the quantification and reporting of GHG emissions at the organizational level.
    - Key Topics: GHG inventory development, boundary setting, emission factors, and reporting protocols.
2. **ISO 14064-2: Specification with Guidance at the Project Level for Quantification, Monitoring and Reporting of Greenhouse Gas Emissions Reductions or Removal Enhancements**
    - Focus: Guidelines for managing GHG emissions reductions or removals at the project level.
    - Key Topics: Project baseline determination, monitoring plans, emission reductions calculations, and reporting requirements.
3. **ISO 14064-3: Specification with Guidance for the Validation and Verification of Greenhouse Gas Assertions**
    - Focus: Guidelines for the validation and verification of GHG emissions assertions to ensure accuracy and credibility.
    - Key Topics: Verification processes, criteria for GHG assertion validation, methods for ensuring data quality.

Training Services Offered

1. Introduction to ISO 14064 Standards

- Overview of the three standards and their significance in GHG management.
- Explanation of the principles behind GHG accounting and reporting.

2. ISO 14064-1 Training

- Detailed guidance on developing a GHG inventory at the organizational level.
- Workshops on setting organizational boundaries and calculating emissions.
- Hands-on training for using emission factors and preparing reports.

3. ISO 14064-2 Training

- In-depth sessions on developing and managing GHG reduction projects.
- Training on establishing baseline scenarios, monitoring emissions, and reporting reductions.
- Case studies of successful GHG reduction projects.

4. ISO 14064-3 Training

- Training on the principles and steps involved in validating and verifying GHG assertions.

- Workshops on developing verification plans and understanding the validation process.
- Insights into quality assurance and data management for reliable GHG reporting.

5. Hands-on Workshops

- Practical sessions for applying theoretical knowledge through case studies, exercises, and team projects.
- Simulations of GHG inventory development, reporting, and verification processes.

6. Certification Preparation

- Preparation courses for professionals seeking certification in GHG accounting, management, or auditing.
- Guidance on meeting the requirements for ISO 14064 compliance in organizations.

7. Continuous Support and Resources

- Provision of materials such as guidelines, templates, and checklists to aid in GHG reporting and verification.
- Ongoing consultation services for organizations implementing ISO 14064 standards.

Day 1: Introduction to ISO 14064 Standards

Morning Session: Understanding GHG Accounting

- **Overview of ISO 14064 Standards**
    - **Purpose and scope of ISO 14064-1, 14064-2, and 14064-3.**
    - **Importance of greenhouse gas measurement and reporting for organizations.**
- **Principles of GHG Accounting and Reporting**
    - **Key principles: relevance, completeness, consistency, transparency, and accuracy.**
    - **Overview of the GHG Protocol and how it relates to ISO 14064.**

Afternoon Session: ISO 14064-1: Organizational GHG Inventories

- **Developing a GHG Inventory**
    - **Scope and boundaries of GHG emissions.**
    - **Identifying emission sources and sinks within an organization.**
- **Quantifying GHG Emissions**
    - **Methodologies for calculating emissions (direct and indirect).**
    - **Use of emissions factors and activity data.**

Day 2: ISO 14064-2: Project-Level GHG Emissions

Morning Session: Understanding ISO 14064-2

- **Framework for Project-Level GHG Accounting**
    - **Overview of the requirements for quantifying GHG emission reductions or removal enhancements from projects.**
- **Defining Project Boundaries**
    - **Determining the organizational and operational boundaries for project GHG assessments.**

Afternoon Session: Project Implementation and Monitoring

- **Quantifying Emission Reductions**
    - **Methods and tools for measuring and reporting emissions reductions from projects.**
- **Monitoring and Verification**
    - **Best practices for ongoing monitoring of project emissions.**
    - **Documentation and reporting requirements for compliance with ISO 14064-2.**

Day 3: ISO 14064-3: GHG Verification and Validation

Morning Session: Understanding ISO 14064-3

- **Overview of Verification and Validation**
    - **Differences between verification and validation in the context of GHG reporting.**
    - **Roles of 3rd party verification bodies.**
- **Verification Approaches**
    - **Understanding different approaches to GHG verification: desk review, site visits, sampling, etc.**

Afternoon Session: Implementation of Verification Processes

- **Planning a GHG Verification**
    - **Steps to prepare for a verification process, including establishing objectives and scope.**
- **Conducting a Verification**
    - **Techniques for evaluating the GHG inventory and project emissions.**
    - **Reporting the findings of a verification audit.**

Day 4: Practical Application, Case Studies, and Certification Preparation

Morning Session: Practical Application of ISO 14064 Standards

- **Hands-On Exercises**
    - **Group exercises focused on developing a GHG inventory, estimating emissions, and reporting.**
    - **Simulating project-level GHG accounting based on ISO 14064-2 and its documentation requirements.**

Afternoon Session: Case Studies and Best Practices

- **Case Studies Analysis**
    - **Review of real-world applications of ISO 14064-1, 14064-2, and 14064-3 in different sectors.**
    - **Discussion of challenges and opportunities faced in implementing these standards.**
- **Preparing for Certification**
    - **Overview of the certification process for organizations implementing ISO standards.**
    - **Documentation and evidence required for successful certification.**

Closing Session: Q&A and Course Wrap-Up

- **Open forum for addressing participant questions and review of key concepts.**
- **Final reflections on the importance of ISO 14064 in enhancing GHG management.**

Learning Outcomes

Upon completion of the course, participants will be able to:

1. **Understand the principles and requirements of ISO 14064-1, 14064-2, and 14064-3.**
2. **Develop organization-wide GHG inventories compliant with ISO standards.**
3. **Quantify GHG emission reductions from projects following ISO 14064-2.**
4. **Implement effective verification processes in line with ISO 14064-3.**

Suitable Audience

This course is ideal for:

- **Sustainability and environmental professionals**
- **GHG account managers**
- **Project managers involved in sustainability initiatives**
- **Environmental auditors and consultants**

Additional Notes

- **Course Materials: Participants will receive comprehensive training materials, templates for GHG calculations, case study documentation, and access to additional resources related to ISO 14064 standards.**
- **Post-Course Support: Access to follow-up consultations, resources, and webinars to aid in the implementation of learned concepts.**

Summary

Training services for ISO 14064-1, 14064-2, and 14064-3 equip participants with the knowledge and skills to effectively measure, manage, and validate GHG emissions and reductions. These training sessions support organizations in enhancing their sustainability practices and ensuring compliance with international standards.