# "Greenhouse Gas Management: Protocols, Accounting, and Reduction Strategies"

## Course Introduction:

The BSI's Greenhouse Gas Qualification Pathway is designed to equip professionals with the knowledge and skills needed to effectively manage and reduce greenhouse gas (GHG) emissions. This course offers a comprehensive understanding of GHG protocols, standards, and management systems, providing participants with the tools necessary to contribute to sustainable practices within their organizations. Through a series of detailed modules, learners will explore the intricacies of GHG accounting, verification, and reporting, ensuring that they are well-prepared to drive environmental improvements and meet regulatory requirements.

## Module 1: Introduction to Greenhouse Gases

• Overview of Greenhouse Gases and Climate Change

Gain insights into the science of climate change, understanding the role and impact of greenhouse gases on the environment.

• Types and Sources of Greenhouse Gases

Explore the various types of greenhouse gases, their sources, and their relative contributions to global warming.

## Module 2: GHG Protocols and Standards

• Introduction to Key GHG Protocols

Learn about the major protocols and standards governing greenhouse gas accounting and management globally.

• Understanding ISO 14064 Standards

Delve into the structure and application of the ISO 14064 standards for quantifying and verifying GHG emissions.

## Module 3: GHG Accounting and Inventory

- Principles of GHG Accounting

## Master the fundamental principles and methodologies for accurate greenhouse gas accounting.

- Developing a GHG Inventory

Gain practical skills for compiling a comprehensive GHG inventory, including data collection and emissions calculation techniques.

## Module 4: GHG Verification and Assurance

- Introduction to GHG Verification

Understand the importance of verification in GHG reporting, including the process and benefits of third-party assurance.

- Conducting a GHG Verification

Learn the step-by-step process for conducting effective GHG verifications, ensuring accuracy and credibility in reporting.

## Module 5: GHG Management and Reduction Strategies

- Identifying GHG Reduction Opportunities

Explore strategies for identifying and capitalizing on opportunities to reduce greenhouse gas emissions within an organization.

- Implementing GHG Management Systems

Discover the components of effective GHG management systems and how to implement them

to achieve sustainability goals.

## Module 6: Reporting and Communication of GHG Information

• GHG Reporting Requirements and Guidelines

Familiarize yourself with the reporting requirements for GHG emissions, including guidelines for transparent and accurate communication.

• Effective Communication of GHG Data

Learn techniques for effectively communicating GHG data to stakeholders, ensuring clarity and engagement.

## Module 7: Case Studies and Practical Applications

• Real-World GHG Management Case Studies

Analyze case studies from various industries to understand practical applications and challenges in GHG management.

• Hands-on GHG Management Exercises

Engage in practical exercises to apply learning, reinforcing skills in GHG inventory, verification, and reduction planning.

## Course Conclusion and Certification

• Summary and Key Takeaways

Review the key learning points from the course, ensuring a solid understanding of GHG management principles.

• Pathway to Certification

Outline the steps and requirements for achieving certification in BSI's Greenhouse Gas Qualification Pathway.

This curriculum is designed to provide a robust foundation in greenhouse gas management, enabling participants to confidently lead sustainability initiatives and contribute to global efforts in combating climate change.