

# UNDERSTANDING ESG REQUIREMENTS:

**AN OVERVIEW AND PERSPECTIVE ON GHG EMISSION  
ACCOUNTING AND REPORTING FOR ENVIRONMENTAL  
PROFESSIONAL.**

## OVERVIEW

The training program is intended to assist organizations in taking the initial steps toward achieving net-zero status. It commences with the development of an inventory of direct greenhouse gas emissions, facilitating the identification of emission sources and quantities within the organization. This, in turn, enables organizations to strategize improvements and reductions aimed at reaching their net-zero objectives. The training provides a structured pathway for participants to cultivate a broad range of knowledge and skills in carbon reduction. This, ultimately, prepares individuals to actively contribute to guiding their organizations on the journey toward net-zero emission



## OBJECTIVES

- ✓ To provide a comprehensive overview of ESG and GHG requirements.
- ✓ To explain the Greenhouse Gases (GHG) Protocol and explore the guidelines set by Intergovernmental Panel on Climate Change (IPCC).
- ✓ To outline the fundamental principles and procedures involved in reporting Greenhouse Gases (GHG) emissions.
- ✓ To initiate an exploration into the quantification and computation of greenhouse gases (GHG).

**TRAINING  FEE**

- Member = RM450
- Non-Member = RM550
- Individual Membership + Training = RM600
- HRDC Claimable + Member = RM500
- HRDC Claimable + Non-Member = RM600
- HRDC Claimable + Individual Membership = RM650

**REGISTER NOW**



**13 & 14 March 2025**



**8.30 am - 5.00 pm**



**ONLINE (GOOGLE MEET)**



**Trainer : ChM Dr  
Shanmuga Kittappa**



# TRAINER INFORMATION

**ChM Dr Shanmuga Kittappa** is a Certified Sustainability Practitioner by the Chartered Management Institute (UK) and a Certified Lean Practitioner by the British Institute of Standard, a Royal Charter UK. His membership in the Royal Society of Chemistry, specializing in Sustainability Practice in Chemical Management and Waste Disposal, underscores his proficiency in environmentally responsible chemical processes. In addition to his research leadership, Dr. Shanmuga is an ELITE member of the Faculty of Engineering at the University of Malaya, reflecting his significant contributions to academia. His role as a technical assessor for the Malaysian Department of Standards further attests to his expertise and recognition as a leading figure in the field of chemistry, science and technology. Dr. Shanmuga's profile highlights a blend of industrial expertise, academic excellence, pioneering research, and active participation in professional organizations, establishing him as a well-rounded and influential figure in sustainability and research.

## COURSE CONTENT

### DAY 1

#### Module 1: An overview of ESG, GHG, Carbon Accounting and dynamics of Climate Change

- Overview on ESG -Guideline and Requirements
- Understanding of GHG, identifying types of gases in the greenhouse category
- Carbon Emissions Awareness: Exploring the significance of carbon emissions and the reasons for concern
- Exploring the Greenhouse Effect and its impact on Climate Change

#### Module 2: GHG Protocol and IPCC guidelines and volumes

- Understanding GHG Protocol and IPCC guidelines
- Identify aspects of activity that result in GHG Emissions
- Defining the operational boundaries for reporting purposes

### DAY 2

#### Module 3: Calculating Carbon emission, emission factors and Application

- Identifying the eligible emissions for inclusion
- Comprehending the formula employed to convert usage data into emissions
- Computing total emissions for the case study organization
- Acquiring knowledge about the sources of activity data and emission factors utilized in the calculations

#### Module 4: Reporting carbon emission as per guidelines or requirement

- Prepare for the reporting of the organization's carbon emission
- Developing an understanding of documentation differences between ISO and GHG Protocol
- Trends and innovation in carbon reporting