



**THE ESG  
INSTITUTE**

# **Empower Your Career with the Foundation Certificate in Sustainable Technology**



[www.the-esg-institute.org](http://www.the-esg-institute.org)





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Technology is at the heart of modern life. It drives innovation, supports global infrastructure, and connects people and businesses worldwide. Yet it also carries an environmental footprint that grows with digitalization.

It is vital to understand technology's environmental footprint, but just as vital to appreciate how it can unlock powerful sustainability solutions. From energy-efficient systems and smart infrastructure to AI optimization and data-driven climate solutions, digital tools help organizations cut emissions and operate more responsibly.

The **Foundation Certificate in Sustainable Technology** introduces you to both sides of this equation. You will explore how digital systems generate emissions and how they can be redesigned and reimaged to drive sustainability across industries.

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## Course Overview

### Who Should Enroll?

- IT and digital professionals seeking a sustainability foundation.
- ESG, CSR, and sustainability officers who need to understand digital impacts.
- Business managers leading technology-enabled transformation.
- Early-career professionals entering the sustainability or tech fields.
- Anyone who wants to make technology part of the climate solution.

### What You'll Gain:

- A clear understanding of the environmental impact of digital technology.
- Practical knowledge of how hardware, software, data, and usage patterns contribute to emissions.
- Insight into how technology can actively support sustainability goals, from energy efficiency to circularity.
- Awareness of global green IT standards and regulatory expectations.
- Tools to start sustainability conversations within IT teams and business units.
- A professional certificate demonstrating your commitment to responsible and future-ready technology practices.





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## Modules:

### 0. Introduction

- Welcome to the Course
- What is ESG?
- Historical Context of ESG

### 1. Why Sustainable Tech Matters

- The Climate Context for IT
- The Digital Carbon Footprint
- Our Responsibility in Tech
- The Business Imperative

### 2. Climate Change, Digitalization & IT's Carbon Footprint

- Climate Change: The Basics
- Growth of Digitalization & Impact
- Scope 1, 2, and 3 Emissions in IT
- Emissions by IT Domain
- Real-World Case Examples

### 3. What Is Sustainable IT?

- Definitions & Core Concepts
- Sustainable Tech vs Tech-Enabled Sustainability
- Core Principles of Sustainable IT
- The Value of Alignment





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## Modules (Cont):

### 4. The Role of IT in Climate Impact

- Hardware & Devices
- Data Centers & Cloud
- Software & Data Footprint
- IT Usage Patterns
- Connecting IT to Emission Hotspots

### 5. Quick Wins in Green IT

- Smarter Use of Equipment
- Reducing Digital Waste
- Remote Work & Sustainable Use
- Energy Efficiency Settings
- Greener Default Practices

### 6. Emerging Tech & Sustainability

- AI and Its Carbon Cost
- IoT & Connected Devices
- Robotics & Automation
- Virtualization & Smart Infrastructure
- Technology as an Enabler





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## Modules (Cont):

### 7. Green IT Standards & Regulations

- Global Standards Overview
- E-Waste & Electronics Regulation
- Sustainable Procurement Standards
- Compliance vs Leadership

### 8. Building Awareness in Your Organization

- Influencing Stakeholders
- IT Team Engagement
- Creating a Culture of Sustainability
- Awareness Campaigns

### 9. Capstone Project

- Real-World Application Based on Course Learnings





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AWARDS

*Name Surname*

THIS

### FOUNDATION CERTIFICATE IN SUSTAINABLE TECHNOLOGY

in recognition of the successful completion of the Foundation Certificate in Sustainable Technology programme and examination at The ESG Institute.

*Jaime Amoedo*

Jaime Amoedo Lucas  
Executive Director



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*Joanne Thurlow*

Joanne Thurlow  
Executive Director



Date: XX-XXX-XXXX

Code: XXXXXXXX-XX





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## What Our Students Say:

“This course opened my eyes to both the challenges and the incredible potential of technology. I now see how it can genuinely help reduce emissions and improve efficiency.”

– **Mark D., IT Specialist, London**

“The Foundation Certificate gave me exactly what I needed: a clear introduction to sustainable technology and how digital tools can support climate action. It’s a perfect first step before advancing into the Certificate and Diploma.”

– **Lina K., Sustainability Analyst, Dubai**