



## **Module 2: Integrated Sustainability Assessment**

### **Why study this module?**

The built environment has special importance within the broader context of sustainable development. The built environment directly and indirectly is responsible for the consumption of large amounts of natural resources, energy and the production of significant quantities of pollution. Huge direct and indirect social, economic and environmental consequences are thus associated with the way we design, build, operate, maintain and ultimately dispose of buildings and their support systems. Sustainability assessment as “a tool that can help decision-makers and policy-makers decide what actions they should take and should not take in an attempt to make society more sustainable”. Many tools have been developed to support the implementation of sustainable construction. Each kind of tool is designed to assess one or more sustainability dimensions (environment, social and economic). This module will explore the concept of sustainability assessment, development of sustainable construction indicators, context and principles of key sustainability assessment tools, and integrated sustainability assessment toolkits. This module will help participants developing an understanding of how holistically can manage and assess sustainability of construction projects.

### **Units in the module**

1. Sustainability assessment fundamentals (0.25 day)
2. Sustainable construction indicators (0.25 day)
3. Sustainability assessment tools (0.5 day)
4. Integrated sustainability assessment toolkit (0.25 day)

### **Module delivery**

The module will be broken down into shorter units as listed above. This allows our partners to deliver them by different methods, either face-to face, by distance learning, or by a combination of the two, and over different timescales (1 or 2 day course, 1 day course, ½ day or ¼ day workshop).

### **Learning outcomes**

The key learning points will include:

- Sustainability assessment management protocol throughout the life cycle
- Sustainable construction indicators
- Development of sustainable construction index
- Principles of sustainability assessment methods and tools
- Introduction to sustainability methods and tools (including LCA, EIA, WLC, BREEAM , etc)
- Stakeholder values and engagements
- Integrated sustainability assessment toolkit

## **Target audience**

The training is aimed at those who would like to understand the principles of holistic assessment of construction projects. It will be of particular interest to those involved in designing, constructing, operating and maintaining projects within client, design and contracting organisations and for materials manufacturers, suppliers, clients and sustainability assessors.