Intelligent Systems and Smart Construction

Venue Information

Venue: London UK

Place:

Start Date: 2026-10-20

End Date: 2026-10-24

Course Details

Net Fee: £4750.00

Duration: 1 Week

Category ID: CACETC

Course Code: CACETC-73

Syllabus

Course Overview

This course focuses on the integration of intelligent systems in construction, including robotics, IoT, drones, and smart devices. Participants will gain insights into cutting-edge AI technologies that are redefining project execution and monitoring.

Learning Objectives

- Understand how AI is embedded into hardware systems and site operations.

- Evaluate practical implementation of digital twins and automation.

Target Audience

Site managers, automation specialists, project engineers, and safety officers interested in high-tech construction applications.

Prerequisites

Familiarity with construction project workflows and digital tools is beneficial.

Course Duration

5 Days (Focused on Intelligent Systems and Smart Construction)

Daily Course Breakdown

Day 1

Study the integration of robotics and AI on construction sites. Explore how computer vision enhances automation in physical construction tasks.

Day 2

Day 3

Understand how predictive maintenance is powered by AI, and how intelligent scheduling systems are optimizing resource allocation.

Day 4

Explore safety and quality control enhancements using AI tools. Discover how digital twin technology provides continuous project visibility.

Day 5

Analyze the fusion of AI with Building Information Modeling (BIM) and Geographic Information Systems (GIS), and learn the key challenges of deploying such integrations