

# Intelligent Systems and Smart Construction

## Venue Information

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**Venue:** London UK

**Place:**

**Start Date:** 2025-12-22

**End Date:** 2025-12-26

## Course Details

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**Net Fee:** £4750.00

**Duration:** 1 Week

**Category ID:** CACETC

**Course Code:** CACETC-74

## Syllabus

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### 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