



Instrumentation & Controls

Smart Sensors and IoT Integration in Industrial Automation

Course Introduction

Revolutionizing industrial automation

The Internet of Things (IoT) is revolutionizing industrial automation, providing smart solutions for optimizing operations, reducing downtime, and enhancing decision-making processes. By integrating advanced technologies like wireless networks, data analytics, and machine learning, IoT is transforming industries globally.

This **5-day training course** is designed to provide participants with a solid foundation in IoT principles and the technical knowledge necessary to implement IoT solutions effectively. It emphasizes practical applications, industry best practices, and cutting-edge architectures for leveraging IoT in industrial automation. Participants will explore the role of smart sensors and their integration into IoT networks to optimize industrial processes.

Target Audience

- Automation engineers and system integrators
- Industrial IoT specialists
- Manufacturing engineers and managers
- R&D professionals in industrial automation
- IT professionals in the manufacturing sector

Learning Objectives

- Gain a comprehensive understanding of IoT principles and technologies with a focus on industrial applications (IIoT).

- Learn security and privacy principles to secure IoT networks.
- Identify IoT applications and best practices across diverse industries.
- Analyze and select the right IoT technologies for specific industrial environments.
- Explore the role of smart sensors and actuators in IoT networks.
- Develop strategies to design, deploy, and optimize IoT-enabled industrial systems.

Course Outline

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 21, 2025	April 25, 2025	5 days	4250.00 \$	UAE - Dubai
July 14, 2025	July 18, 2025	5 days	4250.00 \$	UAE - Dubai
Oct. 20, 2025	Oct. 24, 2025	5 days	4950.00 \$	Turkey - Istanbul
Jan. 26, 2025	Jan. 30, 2025	5 days	4250.00 \$	Qatar - El Doha