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**Course Name**

# Smart Sensors and IoT Integration in Industrial Automation

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**Sector Name**

Instrumentation & Controls

**Document Type**

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## Smart Sensors and IoT Integration in Industrial Automation

### Course Introduction

This course focuses on the integration of the Internet of Things (IoT) and Artificial Intelligence (AI) in industrial automation, emphasizing the transformation of traditional manufacturing processes into smart, efficient, and autonomous systems. Participants will learn how to leverage IoT and AI to enhance operational efficiency, reduce costs, and increase productivity in manufacturing environments.

The course covers key concepts, technologies, and practical applications, providing a solid foundation for implementing smart automation solutions.

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## Smart Sensors and IoT Integration in Industrial Automation

### 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

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## Smart Sensors and IoT Integration in Industrial Automation

### Learning Objectives

- ✓ Understand the principles of IoT and AI in industrial automation.
- ✓ Explore the integration of AI algorithms with IoT devices for smart manufacturing.
- ✓ Develop skills in designing and implementing IoT-based automation solutions.
- ✓ Learn how to optimize production processes using AI-driven insights.
- ✓ Apply cybersecurity measures for IoT and AI systems in manufacturing.

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## Smart Sensors and IoT Integration in Industrial Automation

### Course Outline

#### ✓ DAY 01

##### **Module 1: Fundamentals of IoT and AI in Industrial Automation**

- ✓ Introduction to IoT and AI technologies
- ✓ Key components of IoT systems in manufacturing
- ✓ Role of AI in enhancing industrial automation

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### Course Outline

#### ✓ Day 02

##### **Module 2: IoT Sensors and Data Acquisition**

- ✓ Types of IoT sensors used in industrial automation
- ✓ Data acquisition and processing techniques
- ✓ Real-time data monitoring and control

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### Course Outline

#### ✓ Day 03

##### **Module 3: AI Algorithms for Industrial Automation**

- ✓ Machine learning and AI algorithms in manufacturing
- ✓ Predictive analytics and decision-making in automation
- ✓ Integrating AI with IoT for real-time process optimization

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### Course Outline

#### ✓ Day 04

##### **Module 4: IoT and AI Integration Strategies**

- ✓ Designing IoT architectures with embedded AI
- ✓ Implementing edge and cloud computing in industrial automation
- ✓ Best practices for integrating IoT and AI in manufacturing systems

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### Course Outline

#### ✓ Day 05

##### **Module 5: Cybersecurity in IoT and AI-Driven Automation**

- ✓ Identifying cybersecurity risks in IoT and AI systems
- ✓ Implementing robust security measures for industrial networks
- ✓ Ensuring data integrity and privacy in smart manufacturing

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## Smart Sensors and IoT Integration in Industrial Automation

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 20, 2026	April 24, 2026	5 days	4250.00 \$	UAE , Dubai
July 13, 2026	July 17, 2026	5 days	4250.00 \$	UAE , Dubai
Jan. 31, 2027	Feb. 4, 2027	5 days	4250.00 \$	Qatar , Doha
Oct. 26, 2026	Oct. 30, 2026	5 days	4950.00 \$	Turkey , Istanbul

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