Advanced Industry 4.0

FESTO

Level 3

Industry 4.0 marks the fourth industrial revolution, integrating digital technologies like the Internet of Things (IoT), Cyber-Physical Systems (CPS), and advanced data analytics into manufacturing. This certification provides an in-depth exploration of how these digital advancements transform production, logistics, and maintenance. It emphasizes the creation of efficient, adaptable, and data-driven manufacturing systems. Participants will engage with concepts such as lean manufacturing, safety and risk management, and production planning within a connected, intelligent factory framework. This certification equips individuals with the skills necessary to design, implement, and optimize Industry 4.0 systems, preparing them for the evolving demands of modern industry.

Industry Recognized Certification Topics

- History and Evolution of Industry 4.0
- Cyber-Physical Systems (CPS)
- Lean Methods
- Network Topologies
- Safety and Risk Management
- Production Planning & Manufacturing Execution Systems (MES)

Industry Recognized Certification Competencies

- Understand Industry 4.0 Evolution
- Implement and Integrate Cyber-Physical Systems (CPS)
- Apply Lean Manufacturing Methods
- Design and Manage Network Topologies
- Perform Safety and Risk Management:
- Utilize Production Planning and MES

Units - 6 / Labs - 6