



Perfecto Institute of Robotics & Automation



Training Brochure



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Industrial Automation Module 1

Empower Your Future: Industrial Automation Course

Embark on a transformative journey into the world of Industrial Automation with our comprehensive course designed for both students and professionals. At Perfecto Robotics, we understand the pivotal role automation plays in modern industries. Our Basic Industrial Automation Course is crafted to equip you with essential knowledge and hands-on skills needed to thrive in this dynamic field.

Key Highlights:

1. **Foundations of Industrial Automation:** Delve into the core concepts of industrial automation, understanding the evolution and significance of automated processes in diverse industries.
2. **Introduction to PLC Programming:** Master the fundamentals of Programmable Logic Controllers (PLCs), learning to design and implement basic logic controls that drive industrial machinery and processes.
3. **Sensor and Actuator Integration:** Explore the world of sensors and actuators, gaining practical insights into their functions, types, and integration for efficient automation.
4. **HMI (Human-Machine Interface) Design:** Learn to create user-friendly interfaces that bridge the gap between operators and automation systems, enhancing control and monitoring capabilities.
5. **Basics of Industrial Communication:** Understand the communication protocols essential for seamless interaction between different automation components, ensuring a cohesive and interconnected system.
6. **Robotics:** Delve into the fundamentals of robotics, understanding robotic systems, kinematics, and basic programming concepts.
7. **Pneumatics in Automation:** Explore the principles of pneumatics and its applications in automation systems, gaining hands-on experience with pneumatic components and circuits.
8. **Safety in Automation:** Prioritize safety in industrial automation by grasping the principles of risk assessment, safety standards, and the implementation of safety features in automated systems.

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9. **Real-world Applications and Case Studies:** Apply your knowledge to real-world scenarios through practical exercises and case studies, gaining valuable insights into industry best practices.

Who Should Enrol:

- Students aspiring to enter the field of industrial automation.
- Professionals seeking to enhance their skills and stay abreast of industry advancements.
- Engineers, technicians, and anyone keen on understanding the foundations of automated systems.

Why to Choose Perfecto Robotics:

- **Experienced Instructors:** Learn from industry experts with extensive experience in industrial automation.
- **Hands-on Learning:** Gain practical skills through hands-on exercises and real-world applications.
- **Career Opportunities:** Open doors to diverse career opportunities in industries ranging from manufacturing to process control.

Enrol in our Industrial Automation Courses and become a proficient automation professional, ready to navigate the challenges and opportunities in the ever-evolving landscape of industrial automation. Your future in automation starts here at Perfecto Robotics.

Curriculum

Course Name: Industrial Automation Module 1.

Topic 1: Introduction to Industrial Automation

1. What is Industrial Automation.
2. Brief overview to Automation Industry.
3. History of Industrial Automation.
4. Network architecture & industrial revolutions.
5. Different types of Devices.

Topic 2: Controllers in Industrial Automation

6. Introduction to Controllers.
7. Types of Controllers.
8. Difference between different Controllers.

Industrial Automation Module 1

1. Network Architecture of Controllers.

Topic 3: Programmable Logic Controller

1. Brief Introduction to PLC.
2. Types of PLC.
3. PLC Components.
4. Communication Protocols in PLC.
5. Different types of I/O.

Topic 4: Sensor and Actuators

1. Introduction to Sensors & Actuators.
2. Technologies.
3. Principles.
4. Integration of Automation Systems.
5. Troubleshooting.

Topic 5: Safety in Automation

1. Introduction to Industrial Safety.
2. Safety standards and regulation.
3. Safety Interlocks.
4. Safety devices in Automation.
5. Safety in PLC & Robot.

Topic 6: Foundation for Coding

1. Introduction to Programming.
2. Variables & Datatypes.
3. Operators & Expression.

Topic 7: Configuration & Programming PLC

1. Introduction to Ladder logic.
2. Overview of PLC software (Siemens TIA Portal)
3. Network parameter settings.
4. Basic instructions.
5. Hardware configuration.
6. Types of Operators.
7. Simulating Ladder logic in virtual environment.
8. Interfacing HMI.

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9. Practical.

Topic 8: Human Machine Interface (HMI)

1. Introduction to HMI.
2. Different types of tools.
3. Alarms.
4. Historical Data.
5. Tagging screens.
6. User administration setting.
7. Tagging PLC bits.
8. Practical.

Topic 9: Robotics

1. Introduction to Robotics.
2. Types of Robots.
3. Robot Configuration
4. Robot Jogging.
5. TCP
6. Coordinate System & Frames.
7. I/O Configuration.
8. Robot Communication.

Topic 10: Practical

1. Hardware configuration.
2. Program download & uploading.
3. PLC to PLC Communication.
4. Manual Action testing.
5. Auto Cycle testing.
6. Pneumatic & Electrical system troubleshooting.
7. Communication protocol configuration.

Training Benefits:

- A balanced curriculum featuring 40% theoretical and 60% practical content, fostering a holistic learning experience with hands-on software engagement.
- Attain an authenticated certificate adorned with a unique credential code, adding credibility to your professional identity on various platforms.

Industrial Automation Module 1

- Access guidance from industry experts who serve as mentors, offering valuable insights and assistance in clearing doubts.
- Practical tasks are integral to the training, enabling you to apply acquired knowledge directly to real-world job scenarios.

Duration: 120 Hours.

Language: English, Hindi.

Location: Pune, Maharashtra, India.



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Industrial Automation Module 2

Upskill: Mastering Advanced Industrial Automation

Elevate your expertise in industrial automation with our comprehensive "**Mastering Advanced Industrial Automation**" course. This module is meticulously crafted to equip participants with cutting-edge skills required for the dynamic landscape of Industry 4.0. From advanced PLC programming to futuristic trends like AI integration, this course ensures you are at the forefront of industrial automation innovation.

Key Highlights:

1. **Embrace Industry 4.0 Concepts:** Uncover the foundations of Industry 4.0 and its impact on automation.
2. **Advance PLC Programming Skills:** Navigate complex ladder logic and structured text programming. Integrate PLCs seamlessly with SCADA systems for comprehensive control.
3. **Mastery in Industrial Robotics:** Elevate your robotic programming expertise. Implement collaborative robots (cobots) and incorporate vision systems.
4. **Design Intuitive HMIs:** Craft user-friendly interfaces enriched with multimedia elements. Enable remote monitoring and control using mobile devices.
5. **Navigate Industrial Communication Protocols:** Master Profibus, Profinet, Ethernet/IP, and Modbus TCP/IP. Implement MQTT for Industrial IoT applications.
6. **Implement Advanced Process Control Strategies:** Dive into Model Predictive Control (MPC) and adaptive strategies. Optimize industrial processes with advanced control techniques.
7. **Safety PLC Configuration & Programming:** This course delves into Safety Programmable Logic Controller (PLC) programming, focusing on ensuring industrial process safety. Covering basics and advanced techniques, participants learn to integrate safety PLCs, adhere to safety standards, and apply skills through practical applications and case studies.

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Industrial Automation Module 2

Why to Choose Perfecto Robotics:

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Curriculum

Course Name: Industrial Automation Module 2.

Topic 1: Embrace Industry 4.0 Concepts

1. Foundations of Industry 4.0
2. Impact of Industry 4.0 on automation
3. Components of Industry 4.0
4. Revolution of Industry 4.0

Topic 2: Advance PLC Programming Skills

1. Complex ladder logic programming
2. Structured text programming
3. Seamless PLC integration with Third party Devices.
4. Basic SCL Programming
5. Data tracking & RFID Technology
6. Alarm logic & interfacing with HMI

Topic 3: Mastery in Industrial Robotics

1. Elevating robotic programming skills
2. Implementation of collaborative robots (cobots)
3. Integration of vision systems in robotics
4. Safety configuration
5. Defining Safety & Non-safe Zones

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6. Interfacing Robot signals with PLC
7. Configuring devices in Robot (ProfNet)

Topic 4: Design Intuitive HMIs

1. Crafting user-friendly interfaces
2. Enriching interfaces with multimedia elements
3. Remote monitoring and control via mobile devices
4. Scripting in HMI (VB)

Topic 5: Navigate Industrial Communication Protocols

1. Mastery of Profibus, ProfiNet, Ethernet/IP, Modbus TCP/IP
2. IP assigning and classes of IP Address
3. Parameters for setting communication protocols
4. OPC UA/DA communication setting & accessing the tags

Topic 6: Implement Advanced Process Control Strategies

1. Delving into Model Predictive Control (MPC)
2. Adaptive control strategies
3. Optimization techniques in industrial processes

Topic 7: Safety Programming in PLC

1. Configuring Safety devices.
2. Safety instructions
3. Mapping safety program & standard program
4. PLC to PLC Communication with safety signals

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Duration: 180 Hours.

Language: English, Hindi.

Location: Pune, Maharashtra, India.



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Key Highlights:

1. **Basics of Robotics:** Robotics is a multidisciplinary field that involves the design, construction, operation, and use of robots.
2. **Introduction to Robot Programming:** Master the fundamentals of Robot Programming, is the process of **writing code** that **controls the behaviour and actions** of a robot. It involves a combination of Hardware and Software
3. **Components of Robot:**
 - **Actuators:** These are the components responsible for providing motion to the robot. They can include motors, pneumatic actuators, hydraulic actuators, etc.
 - **Sensor:** These devices gather information from the robot's environment. Examples include cameras, ultrasonic sensors, infrared sensors, and more.
 - **Controller:** The controller processes information from sensors and sends commands to actuators to control the robot's behavior.
 - **End Effector:** This is the tool or device attached to the end of the robot's arm or manipulator. It interacts with the environment to perform tasks. Grippers, welding tools, and vacuum pumps are examples of end effectors.
4. **General Safety Precautions:** General safety precautions for robots include ensuring proper training for operators, implementing safety barriers, regularly inspecting equipment for defects, and adhering to established protocols for emergency shutdowns
5. **Introduction to Various models & Selection Criteria:**
 - **Various model:** Refer to the diverse types or designs of robots specifically engineered for use in industrial settings. These robots are tailored to perform tasks such as assembly, welding, painting, material handling, packaging, and inspection within

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manufacturing facilities.

- **Selection Criteria:** refer to the factors or characteristics that are considered when choosing a particular industrial robot for a specific application or task within a manufacturing environment.

Some common selection criteria for industrial robots include:

- I. Payload Capacity, Reach and Workspace, Speed and Cycle Time, Accuracy and Repeatability, Flexibility, Programming and Integration, Safety Features, etc.

6. Robot Mechanical & Manipulator:

- **Robot Mechanical:** Refers to the physical components and structure of a robot, including its frame, joints, actuators, end effectors, and other mechanical elements. These components are responsible for providing support, mobility, and manipulation capabilities to the robot.
- **Manipulator:** The manipulator typically consists of a series of joints and links connected by actuators, allowing it to move in multiple degrees of freedom.

7. Robot Payload Procedure

- The payload capacity is a critical specification for robots, especially in industrial applications where they are frequently used for tasks such as material handling, assembly, and packaging.

8. Jogging of Robot in Joint/ World frame:

- **Jogging of Robot in Joint:** the operator manually adjusts the angles of the robot's individual joints.
- **Jogging of Robot in World frame:** In this mode, the operator can adjust the position and orientation of the robot's end effector in the global XYZ coordinate space.

9. Controller & Block Diagram:

- **Robot controller:** provides an overview of the device or system responsible for managing and controlling the actions of a robot.
- **Block Diagram:** It provides a simplified overview of the system's architecture, showing how various subsystems interact to achieve the overall objectives of the robot.

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10. LED Indications & Fuses on Controller:

- **LED Indications:** refer to the use of light-emitting diodes (LEDs) to provide visual feedback about the status, operation, or condition of the robot or its controller.
Example: Power status, Fault, Modes, System Healthy Status etc.
- **Fuses:** serve as protective devices to prevent damage to the controller and its components in case of electrical faults or overcurrent conditions.
Example: Main Power Fuse, Internal Circuit Fuse, External Device Fuse etc

11. Selection & Creation of Teach Program:

- **Creation of Teach Program:** the process of manually guiding or "teaching" a robot through a sequence of movements or tasks by physically manipulating its end effector or teaching pendant.
- **Selection of Teach Program:** the process of choosing or specifying a pre-existing teach program to be executed by a robot for a particular task or operation.

12. Joint, Linear & Circular motion:

- **Joint:** Joints are critical components of robotic systems as they enable the robot to change its configuration and perform various tasks by moving its limbs or end effector.
- **Linear:** Linear motion is movement in which an object or component travels from one point to another in a straight path, without deviating or changing direction.
- **Circular motion:** circular motion involves rotation or movement around a central point or axis

13. Backup/Restoring of Data & Auto Backup:

- **Backup:** The process of creating copies of critical data and settings associated with robotic systems to safeguard against data loss or system failures.
- **Restore:** the process of recovering or returning a robotic system or its components to a previous state or configuration.
- **Auto Backup:** The context of robotics refers to a feature or functionality that automatically creates backups of critical data, programs, configurations, and settings associated with a robotic system without requiring manual intervention.

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Curriculum

Course Name: Industrial Robotics Module 1

Topic 1: Introduction to Robotics

1. What is a robot.
2. Introduction to Controllers.
3. Principles of Controllers.
4. What is DOF.
5. What are the advantages of robots.
6. Which was the first industrial robot.
7. What are the Laws of the robotics.
8. Why do we use robots in the industry.

Topic 2: Robot Communication

1. What is Communication.
2. Types of Communication Protocol.
3. Which is the communication protocol used in industrial Robotic.
4. How do we choose the communication protocol for the devices.

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Topic 3: Safety.

1. What is Safety.
2. Introduction to Industrial Safety.
3. Safety standards and regulation.
4. Safety Interlocks
5. Different between Safety & Non safety.
6. What is the types Safety you know.
7. Safety devices in Automation.

Topic 4: Sensor, Actuators, End effector

1. What is End effector.
2. What are the common types of end effectors used in robotics
3. What are some examples of tasks that a robot end effector can perform
4. Introduction to Sensors & Actuators.
5. Technologies.
6. Principles.
7. Integration of Automation Systems.
8. Troubleshooting.

Topic 6: Robot Programming

1. Introduction to Programming.
2. What is robot programming.
3. What are the main programming languages used for robot programming.
4. What is the difference between offline and online robot programming.
5. How do robots interpret and execute instructions within a program

Topic 7: Configuration to PLC

1. What is robot configuration
2. What are the main components of a robot's configuration
3. What is Payload.
4. What are the frames in Robot.
5. Difference between Joint & World frames.
6. What is the process of configuring a robot to a PLC.
7. How is data exchanged between the robot and the PLC configured and managed.
8. How does the configuration differ between different types of robots.

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Topic 8: Robot Jogging

1. What is robot jogging.
2. What are the main reasons for jogging a robot manually.
3. What Safety precaution we need to take while jogging.

Topic 9: Robot Motion

1. What is Robot Motion.
2. What is Collision.
3. What are the different Types of Motion in Robotics.
4. Difference Between Joint, Linear & Circular Motion.
5. How are speed and acceleration controlled in robot motion.

Topic 10: Robot Teaching

1. What is Robot Teaching.
2. What is Teach Pendant.
3. How can Start program in Teach pendant.
4. What is Deadman Switch.
5. What functions can be performed using a teach pendant
6. What are the primary methods used for teaching robots
7. What are the advantages of teaching robots using manual methods compared to programming
8. What role does teach pendant play in robot teaching

Topic 11: Backup & restore.

1. What is backup and restoring.
2. What types of data should be included in backups.

Topic 11: Faults & Alarms.

1. What is Alarm.
2. Different types Alarm in Robotics.
3. How can see the fault in Teach pendant.
4. How can reset the fault in Teach pendant.

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Duration: 80 Hours.

Language: English, Hindi.

Location: Pune, Maharashtra, India.



Industrial Robotics Module 2

Empower Your Future: Industrial Robotics

Embark on a transformative journey into the world of Industrial Automation with our comprehensive course designed for both students and professionals. At Perfecto Robotics, we understand the pivotal role automation plays in modern industries. Our Advance Robot Programming Course is crafted to equip you with essential knowledge and hands-on skills needed to thrive in this dynamic field.

Key Highlights:

- 1. Advance of Robotics:** involves leveraging advanced programming languages, algorithms, and concepts to achieve higher levels of functionality, flexibility, and efficiency in industrial robotic systems.
- 2. Maintenance of Cabinet/Battery Replacement Procedure:**
 - 1. Battery Replacement Procedure:** Industrial robots often use batteries for backup power supply to maintain critical data and settings, such as the robot's memory, system clock, and other parameters, in case of a power outage or shutdown.
 - 2. Maintenance of Cabinet:** refers to the regular upkeep and servicing of the electrical control cabinet or enclosure that houses the electronic components, controllers, power supplies, and other essential systems required for the operation of the industrial robot.
- 3. Program testing editing & touch up:** refers to the iterative process of verifying, refining, modifying, and fine-tuning the instructions or commands that control the behaviour of the robot, as well as making minor adjustments or corrections to improve the overall performance of the program
- 4. Set up & Usage of User Frame:** refers to the process of defining a custom coordinate system, known as a user frame, relative to the robot's base frame.
- 5. Set up & Usage of User Tool Frame:** refers to the process of defining a coordinate system that represents the position and orientation of a tool or end effector attached to the robot's manipulator.
- 6. Explanation of I/O & I/O instructions:** refers to the interaction between the robot and external devices or systems through digital or analog signals. I/O's enable the robot to receive input from sensors, switches, or other devices, as well as to send output signals to actuators, indicators, or other control devices.

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7. **Robot Interface:** refers to the connection point or system that allows communication between the robot and external devices, systems, or interfaces.
8. **Usage of Various Program Instructions:** various types of program instructions are used to control the behaviour and operation of the robot. These instructions dictate how the robot moves, interacts with its environment, processes data, and performs tasks.
9. **Setting Home Position or Reference Positions & Macros:** This home position acts as a baseline or reference point from which the robot can perform various tasks, return to after completing a task, or initialize its movements.
10. **Robot Mastering Procedure:** the process of calibrating and fine-tuning a robotic system to achieve optimal performance and accuracy in its operations.
11. **Robot Project:** In Robot Project you will learn Welding application, Pick and Place application and Material Handling.

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Industrial Robotics Module 2

Curriculum

Course Name: Industrial Robotics Module 2

Topic 1: Advance Robotic

1. What is mean by advance robot.
2. What is the advance technology in the Robot.
3. What are the advance features.

Topic 3: Robot Maintenance.

1. What is Maintenance.
2. How can able to replace Battery.
3. What is Robot Cell.
4. What is the safety precaution we need to take for Robot Maintenance.

Topic 4: Program Teaching and Retouch

1. What is Teach Pendent.
2. What is Retouch
3. What are the steps to Teach a program.
4. How to save the Teach program.
5. How to Run the Teach Program.

Topic 6: User Frame & Tool Frame

1. What is User Frame.
2. What is Tool Frame.
3. What is the Prepose of User Frame.
4. What is the Parameter need to set for User Frame.
5. Difference Between User Frame and Tool Frame.
6. How to Change the Frame.
7. How is a tool frame defined and configured within the programming interface of a robot controller.

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Topic 7: Interfacing & I/O

1. What is Robot Interface.
2. How can Interface with external Devices.
3. How can assign I/O in Robot
4. How can Interface Robot I/O to PLC
5. What is Safety I/O.
6. What are the primary types of I/O interfaces commonly used in industrial robotics.
7. How are analog input signals processed and utilized by the robot controller
8. What are some advanced techniques for integrating I/O interfaces with PLC or Scada.

Topic 8: Usage of Various Program Instructions:

1. What are the robot Instructions.
2. What does the "conditional statement" instruction do in robot programming.
3. How can it be utilized to create decision-making logic within robot routines.
4. What is the significance of a "call subroutine" instruction in robot programming.

Topic 9: Home Position or Reference Positions

1. What is mean by Homing.
2. What is mean by Reference Position.
3. How to Teach Homing.
4. How can set Reference Position.

Topic 10: Robot Mastering

1. What is Robot Mastering.
2. What are the main steps involved in the process of robot mastering.
3. How does robot mastering contribute to improving the accuracy and repeatability of robot operations in industrial settings.

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Duration: 60 Hours.

Language: English, Hindi.

Location: Pune, Maharashtra, India.





OUR GLOBAL PRESENCE

USA



INDIA



PERFECTO ROBOTICS

"Automate your Business"

PERFECTO ROBOTICS PRIVATE LIMITED

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