Fundamentals of Industrial Wiring Systems

FESTO

Level 1

This certification provides participants with both theoretical insights and practical skills in industrial wiring systems, preparing them for roles in electrical installation, maintenance, and troubleshooting. The Industrial Wiring Systems certification provides a comprehensive overview of electrical enclosures, conduits, power distribution, and motor control systems, focusing on safety, and installation standards. Participants gain knowledge about electrical conduit types, panelboards, circuit breakers, and grounding techniques. The course covers wiring installation, conduit bending, and troubleshooting techniques. Through hands-on lab activities and real-world project challenges, learners develop practical skills for designing, implementing, and maintaining industrial electrical systems. This certification equips participants with the foundational knowledge needed to evaluate and deploy industrial wiring solutions.

Industry Recognized Certification Topics

- Safety Procedures in Industrial Wiring
- Electrical Enclosures and Conduits
- Power Distribution and Circuit Protection
- Conduit Bending and Wire Pulling Techniques
- Panelboard and Motor Control Wiring
- Troubleshooting and Maintenance
- Hands-on Application in Industrial Wiring Systems

Units - 14 / Labs - 12

Industry Recognized Certification Competencies

- Understand and Apply Industrial Wiring Principles
- Install and Maintain Electrical Enclosures and Conduits
- Operate and Troubleshoot Electrical Power Distribution
- Implement Safe Wiring Practices and Grounding Techniques
- Analyze and Apply Electrical Troubleshooting Methods
- Develop and Present Industrial Wiring Projects