INDUSTRIAL AUTOMATION MODULE

TECHNICAL U-ACADEMY BY USC

AUTOMATION FUNDAMENTALS

- Type: Certified Training
- Target Public: Automation Engineers & Technicians Equipment Engineers
- Potential Public: Validations & Process Engineers
- Modality: Instructor-Led
- Pre-requisite: Non
- Evaluations: Pre-Test & Post-Test
- Accreditations: College of Engineers and Surveyors of Puerto Rico (CIAPR)

USC CERTIFIED

80 Total Contact Hours
Theoretical & Practical Hands-on Experience

During this 80 contact-hour session of training and workshops, our instructors will discuss topics related to the industrial automation fundamentals, offering our participants an intensive theoretical-practical experience. Every practical exercise and discussion could be tailored to your site's machines, systems, and technologies.

CONTENT (Subject to change)

DAY 1:
Machine Fundamentals
Industrial Equipment and Machines
Automation Hints
Troubleshooting Introduction

DAY 2:
Control Systems
Electrical Schematics and Safety Devices
Multimeter Introduction
Control Panel Components and Schematics
Subsystems

DAY 3:
Sensors
Pneumatic
Sensors and Pneumatic Workshop Part 1

DAY 4:
Sensors and Pneumatic Workshop Part 2
Electrical Schematics Workshop
1st Partial Exam Review

DAY 5:
1st Partial Exam
Programming and PLC Theory

DAY 6:
PC Ethernet Network Adapter Configuration
RsLinx Classic Software Configuration
Studio 5000 PLC Software Configuration
PLC Programming Workshop

DAY 7:
HMI Theory
FactoryTalk Studio ME Introduction
FactoryTalk Studio ME New Project Creation
RsLinx Enterprise Communication Setup
Configure HMI Tags and Displays

DAY 8:
PLC and HMI Workshop
2nd Partial Exam PLC and HMI Review

DAY 9:
Vision Systems Introduction
Vision Systems Workshop
Vision Systems 2nd Partial Exam Review

DAY 10:
2nd Partial Exam
PLC, HMI, and Vision Systems Workshop
Certification