



CERTIFIED INDUSTRIAL AUTOMATION PROFESSIONAL COURSE

BACKGROUND

Indian Industrial scenario had demonstrated a meteoric rise over the last 10 years to become the 4th largest economy in the world. What people of India have witnessed over the last decade and a half is nothing short of a "Industrial revolution". Now the country is preparing itself for the next wave of growth post pandemic such scenario is happening simultaneously in India as well as other countries globally. Due to this high growth rate in this sector, there is huge requirement of skilled professionals. The current education curriculum, though fundamentally strong, lacks the practical on field aspects as well as fails to cover certain upcoming newer technologies which are currently under deployment. This results in a gap between the skill level of a fresh graduate and industry expectations.

In an effort to bridge this gap and make the fresh graduate engineers, industry ready, Samarth Electrocare Pvt Ltd, is launching a certification course called Certified Industrial Automation Professional (CIAP), which aims at uncovering the potential of our engineering cadre and presenting this talent to meet the challenges before the Industry

Samarth Electrocare Pvt Ltd has footprint in the central India (Maharashtra, MP, Chhattisgarh, Telangana etc.) and addresses students all over the region to be trained at various training centers.

SAMARTH /CAPABLE THROUGH OUR CIAP COURSE

COURSE OBJECTIVE

Certified Industrial Automation Professional - course aims at uncovering the potential of our engineering cadre and presenting this talent to meet the challenges before the Industrial sector. It aims at creating efficient and knowledgeable Automation engineers and managers, who will be engaged in making India a world-class player in the area of Industrial Automation. The cardinal objective of the course is to impart theoretical and practical inputs to students in order to mould them in to sound Industrial Automation professionals.

This short course covers all the major aspects of the Industrial Automation, like Industrial Automation Basics Instrumentation, VFD, PLC, SCADA, DCS etc., This will be followed up with in-field hands-on practical training on industry requirements, such as Installation & Commissioning, Maintenance and Repairs.

COURSE OUTLINE

- Intensive 120 hrs. of power packed training
- Includes theory, application and practical (hands on) modules
- Familiarization with emerging business trends
- Familiarization with Industrial environment, Health and Safety norms
- Covers all major aspects of Industrial Automation technology advancements in the domain of Instrumentation, VFD, PLC, SCADA, DCS etc.
- Maintenance & Test Repair the various Automation Devices
- In field hands on training in line with requirements of industry
- which includes various aspects such as Site Surveys, Drive Test, installation and commissions and so on.
- Actual on field use of high end and high cost test and measurement

**INDUSTRIAL AUTOMATION
PROFESSIONAL**



Knowledge Partner



COURSE CONTENT

CIAP Course content has modules covering advanced technologies followed by traditional systems

MODULE 1 Industrial Automation Basics

1. Introduction to emerging
2. automation business environment
3. AC Fundamentals
4. DC Theorems
5. Motors – Types and application

MODULE 2 Industrial Induction Instrumentation

1. Sensors, transducers, transmitter
2. Gas & Liquid Analyser
3. Measurement: Temp, Pressure, level, flow etc
4. Maintenance

MODULE 3 VARIABLE FREQUENCY DRIVE (VFD)

1. Introduction
2. Selection Criteria
3. Control Techniques
4. Features & Drive Setup
5. Application, Configuration, Communication
6. Troubleshooting

MODULE 4 Programmable Logic Controller

1. PLC application
2. Operation & Maintenance of PLC
3. Industrial networking, Device Net, Ethernet & DHRIO
4. Control Logix & Trouble shooting

MODULE 5 Distributed Control System

1. Introduction to various control systems used
2. Applications of DCS system
3. Architectural evolution for DCS
4. Designing DCS based automation solution for the application
5. Troubleshooting

MODULE 6 SCADA

1. Introduction
2. Types
3. Application
4. Configuration

INDUSTRY 4.0

1. IoT
2. AI ML
3. SMART FACTORY

Excel with the SAMARTH edge

1. Trusted brand of domain specialists: SAMARTH is one of those few companies which have significant experience of carrying out Industrial automation projects in India.
2. Relevant Industry Experience: Driven by the finest professionals in the Industrial Automation sector with a collective experience of more than 200 + man years in deployment of Instrumentation, VFD, PLC, SCADA, DCS.
3. Real-time instructor led courses: Courses are "Instructor led" and are conducted in a classroom by relevant faculty.
4. Relevant Hands on Faculty: Faculty has been carefully chosen as the one which has a rich hand on knowledge of deployment of Industrial automation like Instrumentation, VFD, PLC, SCADA, DCS.
5. Hands-on practical training: Classroom lectures are followed by hands-on training using tools and T&M instruments to demonstrate the functioning of various devices.
6. Certification: Successful completion of course will result in the certification of the individual in the form of Certificate being awarded by SAMARTH.
7. 100% placement **assistance**: Certified candidates will be imparted 100% placement assistance for quality assignments across India on projects from leading Companies & Industries like ABB, Siemens, JSW, Indo Rama, ACC cement, Raymond's etc.

Eligibility

Candidates who are either in the final year or passed out from BE (Electronics/ECE/EEE)/Diploma are eligible for the program.

Fee Structure

i) **Enrolment Fee:** The non-refundable enrolment Fee is Rs.2,000/- per candidate. On payment of this admission fee, a provisional admission will be given to the candidate. The final confirmed admission will be granted only after the receipt of the total Course Fees.

ii) **Course Fee:** The Course Fee for this two-month program is Rs.23000/-, which includes the cost of tuition.

iii) **Course Material:** Courseware in the form printed books will be supplied at a charge of Rs. 2000/-. These course books can serve as a useful tool as Technical Reference Guide in future.

There are no additional fees which will be chargeable for examinations, practical and any other activities.

All above mentioned fees will be subject to GST tax at the currently applicable rates payable extra.

About Samarth

Samarth is a leading Industrial automation services provider seeking to synergize its experience in System Integration and Maintenance to deliver best-in-class education for churning out industry ready professionals across the key areas of its expertise. The Company also provides System Integration Solutions & Engineering

Samarth has been set up by a group of industry professionals, who form the core management team with over 200+ man years of hard-core industry experience. Headquartered in Nagpur, Samarth also has a presence in Western & Southern India.



SAMARTH ELECTROCARE PVT LTD

Head Office : U-115 , MIDC, HINGNA, NAGPUR -4400016 Tel : +91 - 712 2520278, 9370275065; electrocarenag@gmail.com

Branch: 410, NIT Commercial Complex, Sitabuldi, Nagpur 440011 Tel : +91 - 712 2520278, 9370275065

Branch: S-4 Advait Residency, Aditya Nagar, Sutgirni Chowk, Aurangabad 431001 Tel: 9595279032 electrocareaug@gmail.com

Website : www.mysepl.in