

Course Name : Advance Composite Plan I on Industrial Automation Course Code : IA 02

Overview of the Course:

IATCA is conducting 80 Hrs individually cared hands on training on Advanced (Plan I) course on Industrial Automation for fresh budding electrical, Instrumentation and Electronics engineers, start-ups, entrepreneurs and managers of project developers, process industries, factory level operations, system integrators and EPC companies. Course focus is on Industrial Automation projects design and development.

The participants will gain knowledge and will have the opportunity to interact with highly experienced automation project managers and experts on site & resource assessment, system design, project planning etc,. Course covers both hardware installation and software programming and system engineering for large and medium scale industrial automation projects.

Who should attend

Electrical/Instrumentation and Electronics engineers who are job seekers, practicing engineers or project managers from industry who need skill up gradation,

Learning Outcomes:

PLC programming in **either of the any one** from Rockwell, Siemens and Mitsubishi/Schneider make hardwares and softwares

Introduction on Industrial Automation and various components of Automation PLC Hardware fundamentals,

Ladder Logic Concepts

Introduction to real world control components used in industrial process

Identification and conventional electrical wiring through various applications

Use of PLC programming softwares through various applications

Real world control components like contactors, relays, timers, solenoid valves etc used in industrial process

identification and conventional electrical wiring through various applications

Use of PLC programming softwares through various applications

Concept of analog PID applications

SCADA programming in **either of the any one** from Rockwell, Siemens

Introduction to SCADA softwares

Creating projects on SCADA Graphic displays, Screen generation,

Tags and Run mode of application with PLC communication Data logs, Alarms, Trending and Report generation

AC Drives program in **either of the any one** from Rockwell, Siemens or Mitsubishi

Introduction to AC Drives for AC motor speed control

Speed torque characteristics of AC motors and also characteristics of mechanical loads/driven equipments

General philosophy and various types of AC Drives

Speed control, acceleration and braking of AC Drives

Selection and application of AC Drives

Configuration of V/F and vector controlled AC Drives

Training Methodology:

The course will be conducted as individually cared program with hands on practical training supported by lectures as and when necessary sometimes using Power Point Presentations, Candidates shall have to program the hardwares and softwares and wiring of the components shall also have to be done by them.

Training Materials:

All the candidates shall be given a CD consisting of

1.Training Documents 2.Freely distributable PLC programming software

Certification:

On completion of training, all candidates shall be evaluated by authorities of International Institute for Advanced Training on Control and Automation and successful candidates shall only be issued certificates by them

Course Fees:

For candidates of India, Bhutan and Nepal – Rs 11000/-

For other International candidates - US\$ 250/-

Course fees are subject to all taxes @ actuals if applicable and payable 100% in advance

All payments either in cheques or DD should be in favour of “**Joyjeet Das Memorial Foundation and Educational Trust**”

Duration: 80 hrs or 20 modules (each module is of 4 Hrs)

Maximum duration : 1 Month

Institute operating Time: 10:00 am - 08:00 pm (Mon to Sat) and 10:00 am – 04:00 pm (Sun)