

Course Name : Basic Plan on Industrial Automation (PLC and SCADA/AC Drives) Course Code : IA 10

Overview of the Course:

IATCA is conducting 60 Hrs hands on training on Basic Plan on Industrial Automation for budding electrical, Instrumentation and Electronics engineers who need to take up an industrial training after 6th semester of their academic curricula. Course focus is on Industrial Automation basic concepts, design and development.

The participants will gain knowledge and will have the opportunity to, best practice in programming, fault finding and wiring of PLC, SCADA and AC Drives. Shall have an exposure to real world control components frequently used in industry.

Who should attend

Engineering students after completion of 6th semester in electrical, Instrumentation and Electronics discipline.

Learning Outcomes:

PLC programming in either of the any one from Rockwell, and Mitsubishi 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

SCADA/HMI programming in either of the any one from Rockwell, Mitsubishi

Introduction to SCADA softwares /HMI programming

Creating projects on SCADA/HMI Graphic displays, Screen generation etc

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

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 the following document which they can copy in their pendrive consisting of

1.Training Documents

Certification:

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

On completion of training in Mitsubishi products, all candidates shall be evaluated by authorities of Mitsubishi Electric thru International Institute for Advanced Training on Control and Automation and successful candidates shall be issued certificate by Mitsubishi Electric.

Course Fees:

For candidates of India, – Rs 4000/-

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: 60 hrs or 20 modules (each module is of 3 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)