



Capitol Professional Academy
Give Wings to Your Career

CAPITOL PROFESSIONAL ACADEMY

DIPLOMA IN INDUSTRIAL AUTOMATION TRAINING



Technical Training
Recruitment
Engineering & Consulting
Constructions

Capitol Professional Academy, an institution dedicated for providing advanced level of training to vibrant enthusiasts who seek careers in the industry and corporate. The professional courses offered by Capitol Professional's Academy is specially designed on Industry basis to acquire technical knowledge and skills in order to seek career position in corporate and industries. CPA trained individuals are qualified for positions in constructional projects, petrochemical plants, telecom sector, utilities, fabrication designing, software, networking, Industries which work on industrial automation based turnkey projects, maintenance and other occupations that require automation skills.



CAPITOL PROFESSIONAL ACADEMY
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DIPLOMA IN INDUSTRIAL AUTOMATION TRAINING

Flexible solutions for Industry need

INDUSTRY FOCUSING

- ✦ Construction & Infrastructure
- ✦ Facility Management
- ✦ Oil and Gas Industry
- ✦ Military services
- ✦ IT and networking
- ✦ Utilities
- ✦ Hospitality Industry
- ✦ Airports / Aviation field
- ✦ Sea ports / Shipyards
- ✦ Medical services
- ✦ Transportation fields
- ✦ Marine Navigations

In Today's world revolves around high technology & most companies have invested substantially in automated plants. For this reason most manufacturing companies are looking for competent engineers with basic aptitude towards automation and ability to work on varied brands of PLCs, Drives, MMI and SCADA. The usage of automation has increased more than tenfold in each industry for them to compete globally & the requirement for PLC, SCADA,MMI/HMI, DCS, trained engineers keep on increasing. We have been conducting training on various industrial automation tools such as PLC, SCADA, MMI/HMI,DCS for college students , fresher's and industry professionals every month. We also provide tailor made training for specific areas of technology

COURSE DETAILS

Batch :	Full Time	Part Time
Duration :	3 Months	5 Months
Qualification :	M.TECH / B.TECH / DIPLOMA(ECE/EIE/EEE/CSE))	



DESIGNING

Methods and techniques for the design of Automation systems



ESTIMATION & PROCUREMENT

Estimation and procurement of Automation Systems



PROJECT LAB & ONJOB TRAINING

All the systems custom made labs dedicated for Industry are used for Training the graduates.

PROJECT MANAGEMENT

The discipline of initiating, planning, executing, controlling, and closing the work of a team to achieve specific goals and meet specific success criteria.



WE ARE LOOKING FOR ENTHUSIASTIC GRADUATES WILL YOU BE THE RIGHT ONE?

WWW.CAPITOLGLOBAL.COM

DIPLOMA IN INDUSTRIAL AUTOMATION TRAINING

COURSE DETAILS

- ✚ Module -1) Basic principles of Automation
- ✚ Module -2) Principles of PLCs
- ✚ Module -3) Basic Communication protocols
- ✚ Module -4) HMI design & operation
- ✚ Module-5) SCADA design & operation
- ✚ Module-6) Variable Frequency Drives
- ✚ Module-7) Project management
- ✚ Module -8) LAB
- ✚ Module-9) On Job Training / Site Visits
- ✚ Module -10) Main project
- ✚ Module -10) MAIN PROJECT



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DIPLOMA IN INDUSTRIAL AUTOMATION TRAINING

- ✚ Introduction about Basic Automation
- ✚ Basic principles of Automation
- ✚ Principles of PLC
- ✚ Introduction to PLC'S
 - ❖ Architecture of PLC
 - ❖ PLC programming
 - ❖ Creating & Editing Ladder Logic Program
 - ❖ Developing industry oriented application programs using plc Programming Software
 - ❖ interfacing PLC with various field input/output devices
 - ❖ PLC Fault Finding, Trouble Shooting
 - ❖ Detailed sequence of wiring
 - ❖ PLC Control Panel Wiring

- ✚ HMI
 - ❖ Introduction to HMI
 - ❖ Architecture of HMI/MMI
 - ❖ Creating Slides/Screens
 - ❖ Images, Objects Configuration
 - ❖ Alarm Configuration
 - ❖ Live interfacing with PLC



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DIPLOMA IN INDUSTRIAL AUTOMATION TRAINING

SCADA

- ❖ Introduction to SCADA
- ❖ Establishing master-slave control
- ❖ Creating & Editing Objects
- ❖ Creating Database
- ❖ Alarm Configuration
- ❖ Trends- Real-Time & Historical
- ❖ Database & DDE connectivity
- ❖ Driver configuration
- ❖ Live interfacing with PLC

VFD

- ❖ Introduction to Drives & Motors
- ❖ Architecture of VFD
- ❖ VFD programming
- ❖ Interfacing PLC to VFD
- ❖ Motor Speed Control Using VFD
- ❖ Checking the rated voltage, rated current, rated RPM



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DIPLOMA IN INDUSTRIAL AUTOMATION TRAINING

Project management

✚ Understanding of Project flow

- ❖ Job Explanation meeting
- ❖ Pre Qualification
- ❖ Estimation
- ❖ Tender Placing
- ❖ Contract Awarding
- ❖ Kick of meeting
- ❖ Planning
- ❖ Implementation
- ❖ Commissioning
- ❖ Hand over

✚ Drawing Analysis

- ❖ IFC
- ❖ Shop drawing
- ❖ Single line diagram / Schematic diagram
- ❖ Floor lay outs / rack lay outs / Rack Elevation
- ❖ As built drawing

✚ Quality , Health and Safety Plan

- ❖ Project Quality Plan
- ❖ Method statement
- ❖ Risk Assessment
- ❖ Auditing
- ❖ Safety Induction
- ❖ Tool Box Talk
- ❖ Daily Site Activity Plan
- ❖ PPE



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