



DURATION  
**3 Months**

INDUSTRIAL AUTOMATION

COURSE & CAREER GUIDE · 2026

# Automation **System Engineer**

## Course Details & Career Growth Guide

Multi-brand PLC, SCADA, HMI, VFD and servo training for engineers who want to be commissioning-ready.

240 Training Hours

5 Modules

4 Hands-On Projects

Career Roles & Salary Ladder

Placement Support

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## Programme Highlights

### 240 Hours

3 Months of structured,  
practical training

### 4 Projects

Hands-on work you can  
show employers

### Certified

TÜV SÜD + IPCS Global

### Placement

100% placement  
assistance & career-  
readiness

## ABOUT US

# IPCS Global — Since 2008

IPCS Global began in 2008 as a specialised industrial automation training and services provider and has grown into one of India's leading technical and digital skills institutes, with 50+ branches across India and the GCC. Our Coimbatore centre in Peelamedu combines classroom teaching with hands-on labs, and every learner is coached in communication, aptitude and interview readiness alongside technical skills.

**18+**

YEARS

**15,000+**

PROFESSIONALS TRAINED

**50+**

BRANCHES

**100%**

PLACEMENT ASSISTANCE

## ■ About the Industrial Automation Stream

Industrial automation is IPCS Global's founding specialisation since 2008. Our programmes take you from electrical basics to multi-brand PLC, SCADA, HMI, VFD, servo, DCS and Industrial IoT on real lab equipment — the skills plants in India and the GCC hire for.



### ISO 9001:2015 Certified

Audited, consistent training quality.



### TÜV SÜD Cooperation Partner

Partner of the German testing & certification body.



### NSDC Approved Partner

Approved training partner under Skill India.



Inside the IPCS Global Coimbatore training centre.

# Why Industrial Automation, **Why Now**

The demand behind this programme — and the industries that hire our graduates.

## 1 **Factories are automating**

Manufacturing, pharma, food processing, water treatment and energy plants across India are upgrading to PLC, SCADA and drive-based control — and need engineers to commission and maintain it.

## 2 **Industry 4.0 is here**

Plants are connecting machines to networks and dashboards. Engineers who combine classic automation with IIoT and data skills are in short supply.

## 3 **Strong GCC demand**

Oil & gas, utilities, construction and infrastructure projects in the Gulf continue to recruit PLC, SCADA and instrumentation engineers from India.

## Where You Can Work

1

**Manufacturing & automotive plants**

2

**Pharma & food processing**

3

**Water & wastewater treatment**

4

**Power, energy & utilities**

5

**Oil & gas, chemical & cement**

6

**System integrators & panel builders**

## Three Ways to Build Your Career

### **Full-Time Job**

Join a company with placement support behind you — stability and structured growth.

### **Job + Freelance**

Hold a job while taking side projects to build income and a broader portfolio.

### **Overseas / GCC**

Automation is one of the most internationally mobile technical careers. With 2–3 years of experience, commissioning and project engineers frequently move to GCC countries at significantly higher tax-free packages.

## CAREER PROGRAMME

# Automation System Engineer

Multi-brand PLC, SCADA, HMI, VFD and servo training for engineers who want to be commissioning-ready.

3 Months

240 Hours

5 Modules

4 Projects

Classroom + hands-on lab

## Part A • Course Details

### Program Overview

A 3-month engineering programme that covers everything in our flagship diploma except the foundation basics and the industry survey. Ideal for engineering graduates who already have their electrical basics and want intensive, hands-on automation skills.

#### DURATION

**3 Months**

#### TRAINING HOURS

**240 Hours**

#### MODULES

**5 Structured Modules**

#### MODE

**Classroom + hands-on lab**

#### BATCHES

**Weekday • Weekend • Fast-track**

#### CERTIFICATION

**TÜV SÜD + IPCS Global**

### Who Should Join

- ✓ BE / B.Tech / Diploma in EEE, ECE, EIE, Mechatronics
- ✓ Final-year engineering students
- ✓ Maintenance engineers
- ✓ Electrical technicians moving into automation

**Eligibility:** Diploma or degree in an electrical, electronics or instrumentation discipline.

### What You'll Be Able To Do

- ✓ Program PLCs from 9+ brands
- ✓ Build and interface SCADA and HMI projects
- ✓ Commission VFDs and servo drives
- ✓ Read and wire control panels
- ✓ Understand DCS and instrumentation

## The Full Syllabus

5 modules, 240 hours.

|    |                                              |        |
|----|----------------------------------------------|--------|
| 01 | Introduction to Automation & PLC Programming | 60 Hrs |
| 02 | SCADA & PLC Programming                      | 50 Hrs |
| 03 | HMI & PLC Programming                        | 50 Hrs |
| 04 | VFD & PLC Programming                        | 40 Hrs |
| 05 | Servo, DCS & Field Instrumentation           | 40 Hrs |

Total Training Duration

**240 Hours**

## Module-by-Module Topics

### MODULE 01

60 Hrs

#### Introduction to Automation & PLC Programming

- Automation scope, types & industry tools
- PLC architecture, scan cycle & I/O types
- Ladder logic: contacts, coils, latching, interlocks
- Timers, counters, comparators & RTC
- Schneider Zelio & Allen-Bradley
- Electrical control panel wiring: MCB, contactor, OLR
- DOL & star-delta starters, interlocking
- PLC wiring, sinking/sourcing & sensor interfacing

### MODULE 02

50 Hrs

#### SCADA & PLC Programming

- SCADA architecture, tags & data acquisition
- Graphics, animations & screen navigation
- Alarms, events, trends & historical logging
- Scripting & recipe management
- InTouch & WinCC; Siemens S7-300/S7-1200, Delta

### MODULE 03

50 Hrs

#### HMI & PLC Programming

- HMI hardware, need & applications
- Screen design: buttons, indicators, graphics
- PLC-HMI interfacing with digital & analog tags
- Alarms, trends, recipes & security levels
- Delta & Siemens HMI; Mitsubishi, Omron, ABB PLCs

### MODULE 04

40 Hrs

#### VFD & PLC Programming

- VFD working principle & applications
- Local, 2-wire & 3-wire control
- Parameter programming & preset frequencies
- Analog speed control & relay outputs
- Danfoss & ABB VFD; Honeywell, GE Fanuc; AB PAC

## MODULE 05

40 Hrs

### Servo, DCS & Field Instrumentation

- Servo systems: speed, torque & position control
- Internal/external control modes & gear ratio
- DCS architecture, PLC vs DCS & communication modules
- Field instruments: RTD, thermocouple, pressure, flow & level
- Calibration, final control elements & control loops (PID)

## Automation System Engineer · Part A

### Tools, Projects & Assessment

#### Tools & Technologies You'll Use

Schneider Zelio Soft

Rockwell RSLogix / Studio 5000

Siemens TIA Portal (S7-1200)

Delta ISPSOft / WPLSOft

Wonderware InTouch

Siemens WinCC

Delta DOPSOft HMI

Danfoss & ABB VFDs

Delta servo drives

Multimeter & panel tools

Mitsubishi GX Works

Omron CX-Programmer

#### Projects You'll Build

1 Multi-station conveyor automation

2 SCADA plant monitoring screen

3 VFD speed control with HMI

4 Servo positioning exercise

#### How You'll Be Assessed

1

##### Module Assessments

Practical and theory checks at the end of each module.

2

##### Project Reviews

Trainer review of your mini projects and final project.

3

##### Certification

Issued on meeting assessment and attendance criteria.

**Certification:** TÜV SÜD certification + IPCS Global course certificate + Internship Certification.

## Where Automation System Engineer Can Take You

Job roles, a realistic growth ladder with salary ranges, and the skills to keep growing.

### Roles You'll Be Ready For

1

#### PLC Programmer

Writes and troubleshoots PLC logic for machines and processes.

2

#### Automation Engineer

Designs and commissions complete control systems.

3

#### SCADA / HMI Engineer

Builds monitoring and operator interfaces.

4

#### Commissioning Engineer

Installs and starts up systems on site.

5

#### Maintenance Engineer (Electrical & Automation)

Keeps plant control systems running.

6

#### Instrumentation Engineer

Calibrates and maintains field instruments.

### Your Growth Ladder

STAGE

01

0-2 YRS

#### Graduate / Trainee Engineer

Program, wire and test under senior guidance.

₹2.4 – 4 LPA

STAGE

02

2-5 YRS

#### Automation / Project Engineer

Own commissioning and programming for projects.

₹4 – 7 LPA

STAGE

03

5-8 YRS

#### Senior Engineer / Team Lead

Lead projects, clients and junior engineers.

₹7 – 12 LPA

STAGE

04

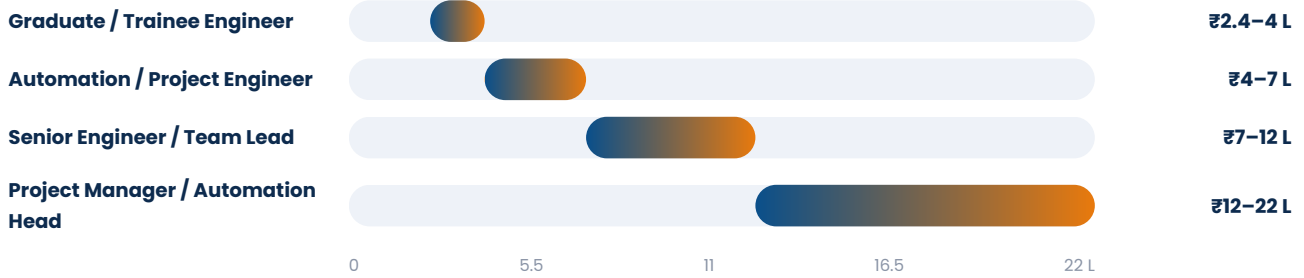
8+ YRS

#### Project Manager / Automation Head

Run multi-site projects and teams.

₹12 – 22 LPA

## Annual Salary Range (CTC) — ₹ Lakh per annum



Indicative ranges for India in 2026. Lower end: Tier-2 cities such as Coimbatore and smaller firms; upper end: metros and larger companies; GCC and overseas packages are typically higher. Guidance only, not a salary guarantee.

## Skills to Add Next

- ✓ Siemens TIA Portal & S7-1500
- ✓ Industrial networking (Profinet, Modbus, EtherNet/IP)
- ✓ IIoT & data dashboards
- ✓ Motion control & robotics
- ✓ Electrical design in EPLAN / AutoCAD Electrical

## Certifications to Target

- ✓ TÜV SÜD automation certification
- ✓ Siemens / Rockwell vendor certifications
- ✓ ISA Certified Automation Professional (CAP) — later career
- ✓ Functional safety (TÜV FS Engineer) — later career

## Upgrade Path at IPCS Global

- 1 **Certified Industrial IoT Professional**
- 2 **Professional Diploma in Industrial Automation**

## Your First 12 Months After the Course

1

### Month 0-1 • Get Visible

Polish your resume and portfolio; apply through the IPCS placement cell's drives.

2

### Month 1-3 • First Role

Join as a Graduate / Trainee Engineer.

3

### Month 3-6 • Get Certified

Earn one certification from the list above.

4

### Month 6-12 • Specialise

Pick a specialisation and own a project, system or channel.

# How We Train & Certify

Technical skill gets you noticed — presentation, confidence and communication get you hired.  
Career-readiness runs alongside the syllabus, not after it.

## Our Learning Method



## Your Certifications

- TÜV SÜD Certification**  
 IPCS Global is a cooperation partner of TÜV SÜD, the German testing and certification body. Eligible learners receive a TÜV SÜD certificate that adds independent, international credibility to their skills.
- IPCS Global Course Certificate**  
 IPCS Global is an ISO 9001:2015 certified institute and an NSDC approved training partner. Your course certificate is issued on successful completion of assessments.
- Internship Certification**  
 Documents your hands-on lab and project work on real PLCs, drives and panels — verifiable experience for your resume.

## Career-Readiness Track



# How IPCS Global Gets You Hired

Every learner goes through a structured career-readiness track alongside the course, supported by our dedicated placement cell.

1

## Dedicated Placement Cell

Interview drives, industry referrals and follow-up until you are placed – not just until the course ends.

2

## Resume & Portfolio

One-on-one sessions to build a recruiter-ready resume and a project portfolio that proves your skills.

3

## Aptitude & GD Training

Quantitative, logical and verbal aptitude plus group discussion practice.

4

## Mock Interviews

Simulated technical and HR panels so the first real interview never feels like the first.

## Recent IPCS Coimbatore Placements



A selection of recent placements across IPCS Global Coimbatore programmes.

**Global opportunity:** Automation is one of the most internationally mobile technical careers. With 2–3 years of experience, commissioning and project engineers frequently move to GCC countries at significantly higher tax-free packages.

WHY TRAIN WITH US

## Why IPCS Global



### 18+ Years of Training Excellence

A track record since 2008, refined across 15,000+ professionals trained.



### ISO 9001:2015 Certified

Audited, consistent training quality — every batch, every time.



### Recognised Partnerships

TÜV SÜD cooperation partner and NSDC approved training partner.



### Dedicated Placement Cell

Industry tie-ups, interview drives and follow-up until you are placed.



### Real Labs, Real Projects

Industry-grade equipment and live projects — proof of work, not just a certificate.



### 50+ Branches, One Standard

Across India and the GCC, with weekday, weekend and fast-track batches.

## Meet Our Coimbatore Team



Trainers, mentors, counsellors and placement coordinators at IPCS Global Coimbatore — working with every learner from the first class to final placement.

# Frequently Asked Questions

Quick answers to the questions learners and parents ask us most. For anything else, call or visit the Coimbatore branch.

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## **Q. Do I need prior experience to join?**

Most programmes start from the fundamentals. Each programme lists its eligibility — our counsellors will confirm the right starting point for your background.

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## **Q. Are classes held online or in the classroom?**

Classroom + hands-on lab. Talk to our counsellors about the best option for your programme.

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## **Q. What batch timings are available?**

We run weekday, weekend and fast-track batches, so students and working professionals can both find a schedule that fits.

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## **Q. Is placement guaranteed?**

We provide 100% placement assistance — resume building, aptitude and GD training, mock interviews and interview drives through our dedicated placement cell. Final selection depends on each learner's performance, attendance and interview results.

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## **Q. What certificate will I receive?**

TÜV SÜD certification + IPCS Global course certificate + Internship Certification.

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## **Q. Can I attend a class before enrolling?**

Yes. Book a free demo session to meet the trainers, see the labs and experience a live class before you decide.

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## **Q. What are the course fees?**

Fees depend on the programme and batch type. Please contact the Coimbatore branch for the current fee structure and any available offers.

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## **Q. Can working professionals join?**

Yes. Weekend and fast-track batches are designed for people who are working or studying alongside the course.

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LET'S START THE CONVERSATION

# Your Career in **Industrial Automation** Starts Here

Book a free demo class, meet the trainers and see the labs — our counsellors will help you pick the right programme and batch.

## Visit Us

**Address** #12, 2nd Floor, Swathi Towers,  
Sowripalayam –  
Masakalipalayam Road, Opp.  
GRG Matriculation School,  
Periyar Nagar, Peelamedu,  
Coimbatore, Tamil Nadu –  
641004

## Get In Touch

**Phone** +91 80860 96664  
**Email** [bmcbe@ipcsglobal.com](mailto:bmcbe@ipcsglobal.com)  
**Web** [www.ipcsglobal.com](http://www.ipcsglobal.com)  
**Batches** Weekday · Weekend · Fast-track

## Book Your Free Demo Session Today

Walk in, call or write to us — meet the trainers, see the labs, and get counselling on the right course and batch before you enrol.

### How to Enrol

1

#### Contact Us

Call, WhatsApp or walk in to our Peelamedu centre.

2

#### Free Demo

Attend a live class and see the labs.

3

#### Choose a Batch

Weekday, weekend or fast-track.

4

#### Enrol & Start

Simple, guided enrolment.