



DURATION  
**1.5 Months**

INDUSTRIAL AUTOMATION

COURSE & CAREER GUIDE · 2026

# Advanced Automation System Professional (**AASP-4**)

Course Details & Career Growth Guide

PLC, SCADA, HMI and VFD fundamentals in six weeks.

120 Training Hours

3 Modules

3 Hands-On Projects

Career Roles & Salary Ladder

Placement Support

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## Programme Highlights

### 120 Hours

1.5 Months of structured, practical training

### 3 Projects

Hands-on work you can show employers

### Certified

TÜV SÜD + IPCS Global

### Placement

100% placement assistance & career-readiness

# 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.

ENTRY-LEVEL COURSE

# Advanced Automation System Professional (AASP-4)

PLC, SCADA, HMI and VFD fundamentals in six weeks.

1.5 Months

120 Hours

3 Modules

3 Projects

Classroom + hands-on lab

## Part A • Course Details

### Program Overview

A compact programme covering the four pillars of industrial automation — PLC, SCADA, HMI and VFD — with a choice of brands, designed for learners who need practical skills in a short time.

DURATION

**1.5 Months**

TRAINING HOURS

**120 Hours**

MODULES

**3 Structured Modules**

MODE

**Classroom + hands-on lab**

BATCHES

**Weekday • Weekend • Fast-track**

CERTIFICATION

**TÜV SÜD + IPCS Global**

#### Who Should Join

- ✓ Students completing diploma or degree
- ✓ ITI electricians
- ✓ Maintenance staff

**Eligibility:** ITI, diploma or degree in an electrical or electronics discipline.

#### What You'll Be Able To Do

- ✓ Write ladder logic for real applications
- ✓ Wire PLC inputs and outputs
- ✓ Build a basic SCADA and HMI screen
- ✓ Run a motor through a VFD

## The Full Syllabus

3 modules, 120 hours.

|    |                                              |        |
|----|----------------------------------------------|--------|
| 01 | Introduction to Automation & PLC Programming | 40 Hrs |
| 02 | SCADA & PLC Programming                      | 40 Hrs |
| 03 | HMI & VFD Programming                        | 40 Hrs |

Total Training Duration

**120 Hours**

## Module-by-Module Topics

### MODULE 01

40 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
- Allen-Bradley, Delta or Mitsubishi
- PLC wiring

### MODULE 02

40 Hrs

#### SCADA & PLC Programming

- SCADA architecture, tags & data acquisition
- Graphics, animations & screen navigation
- Alarms, events, trends & historical logging
- InTouch or WinCC
- Siemens S7-1200, Omron or ABB

### MODULE 03

40 Hrs

#### HMI & VFD Programming

- HMI hardware, need & applications
- Screen design: buttons, indicators, graphics
- PLC-HMI interfacing with digital & analog tags
- VFD working principle & applications
- Local, 2-wire & 3-wire control
- Parameter programming & preset frequencies

## Tools, Projects & Assessment

### Tools & Technologies You'll Use

RSLogix / Delta / GX Works

TIA Portal

InTouch / WinCC

Delta or Siemens HMI

Danfoss or ABB VFD

## ■ Projects You'll Build

1 PLC motor control logic

2 SCADA monitoring screen

3 HMI + VFD control

## ■ 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.

## PART B · CAREER GROWTH

### Where AASP-4 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

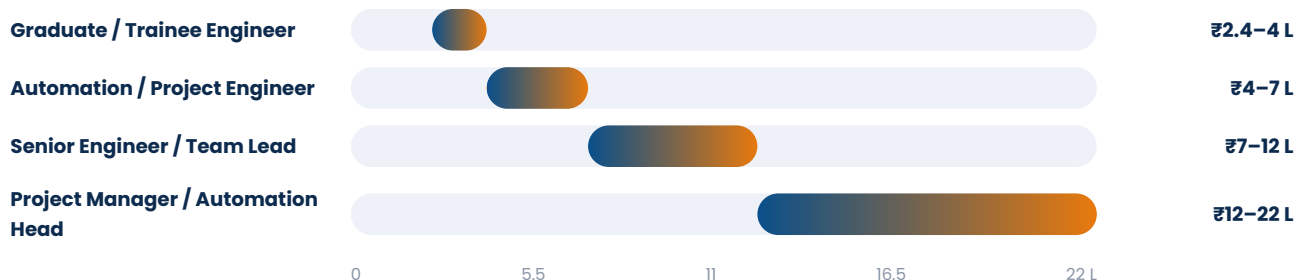
Calibrates and maintains field instruments.

**Good to know:** this course prepares you for entry-level roles. To move up faster, continue with **AASP-6 (2 months)**.

## ■ Your Growth Ladder

|                                      |                                                                                         |                     |
|--------------------------------------|-----------------------------------------------------------------------------------------|---------------------|
| <b>STAGE</b><br><b>01</b><br>0–2 YRS | <b>Graduate / Trainee Engineer</b><br>Program, wire and test under senior guidance.     | <b>₹2.4 – 4 LPA</b> |
| <b>STAGE</b><br><b>02</b><br>2–5 YRS | <b>Automation / Project Engineer</b><br>Own commissioning and programming for projects. | <b>₹4 – 7 LPA</b>   |
| <b>STAGE</b><br><b>03</b><br>5–8 YRS | <b>Senior Engineer / Team Lead</b><br>Lead projects, clients and junior engineers.      | <b>₹7 – 12 LPA</b>  |
| <b>STAGE</b><br><b>04</b><br>8+ YRS  | <b>Project Manager / Automation Head</b><br>Run multi-site projects and teams.          | <b>₹12 – 22 LPA</b> |

## ■ 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 AASP-6 (2 months)

2 Automation System Engineer (3 months)

## ■ 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.