



DURATION  
**2 Months**

INDUSTRIAL AUTOMATION

COURSE & CAREER GUIDE · 2026

# Advanced Automation System Professional (**AASP-6**)

Course Details & Career Growth Guide

A fast-track PLC, SCADA, HMI and VFD programme across leading brands.

180 Training Hours

3 Modules

3 Hands-On Projects

Career Roles & Salary Ladder

Placement Support

## CONTENTS

# What's Inside

### INTRODUCTION

|                                                      |   |
|------------------------------------------------------|---|
| About IPCS Global & the Industrial Automation Stream | 3 |
| Industry Outlook & Where You Can Work                | 4 |

### PART A — COURSE DETAILS

|                                           |   |
|-------------------------------------------|---|
| Program Overview, Key Facts & Eligibility | 5 |
| The Full Syllabus                         | 6 |
| Module-by-Module Topics                   | 6 |
| Tools, Projects & Assessment              | 6 |

### PART B — CAREER GROWTH

|                                       |   |
|---------------------------------------|---|
| Job Roles You'll Be Ready For         | 7 |
| Growth Ladder & Salary Progression    | 8 |
| Skills, Certifications & Upgrade Path | 8 |

### TRAINING, CERTIFICATION & PLACEMENT

|                                                |    |
|------------------------------------------------|----|
| How We Train, Certification & Career-Readiness | 10 |
| How IPCS Global Gets You Hired                 | 11 |
| Why IPCS Global & Meet Our Team                | 12 |
| Frequently Asked Questions                     | 13 |
| Contact & How to Enrol                         | 14 |

## Programme Highlights

#### 180 Hours

2 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.

## FAST-TRACK PROGRAMME

# Advanced Automation System Professional (AASP-6)

A fast-track PLC, SCADA, HMI and VFD programme across leading brands.

2 Months

180 Hours

3 Modules

3 Projects

Classroom + hands-on lab

## Part A • Course Details

### Program Overview

A 2-month intensive for learners who want job-ready automation skills quickly. You program Schneider, Allen-Bradley, Delta, Siemens, Omron and ABB PLCs, build SCADA and HMI screens, and control motors with VFDs.

#### DURATION

**2 Months**

#### TRAINING HOURS

**180 Hours**

#### MODULES

**3 Structured Modules**

#### MODE

**Classroom + hands-on lab**

#### BATCHES

**Weekday • Weekend • Fast-track**

#### CERTIFICATION

**TÜV SÜD + IPCS Global**

### Who Should Join

- ✓ Diploma / degree holders in electrical or electronics
- ✓ ITI electricians
- ✓ Working technicians needing fast upskilling

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

### What You'll Be Able To Do

- ✓ Program PLCs from six brands
- ✓ Wire PLCs and field devices
- ✓ Build SCADA and HMI applications
- ✓ Configure Danfoss & ABB VFDs

## The Full Syllabus

3 modules, 180 hours.

|    |                                              |        |
|----|----------------------------------------------|--------|
| 01 | Introduction to Automation & PLC Programming | 60 Hrs |
| 02 | SCADA & PLC Programming                      | 60 Hrs |
| 03 | HMI & VFD Programming                        | 60 Hrs |

Total Training Duration

**180 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
- Set/Reset, impulse coils, MOV, JMP, JSR, FIFO/LIFO
- Schneider Zelio, Allen-Bradley, Delta
- PLC wiring & sensor interfacing

### MODULE 02

60 Hrs

#### SCADA & PLC Programming

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

### MODULE 03

60 Hrs

#### HMI & VFD Programming

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

## Tools, Projects & Assessment

### Tools & Technologies You'll Use

Zelio Soft

RSLogix

TIA Portal

Delta ISPSoft

InTouch / WinCC

Delta & Siemens HMI

Danfoss & ABB VFDs

## Projects You'll Build

1 Conveyor with PLC + HMI

2 SCADA tank monitoring

3 VFD speed 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-6 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

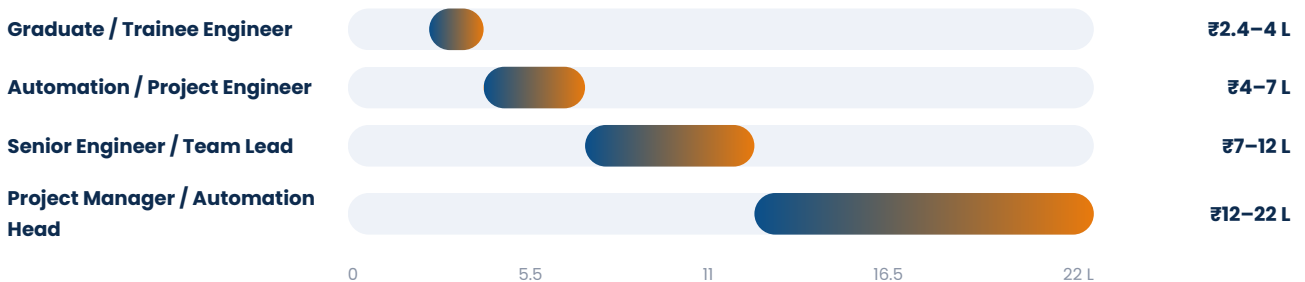
### Instrumentation Engineer

Calibrates and maintains field instruments.

## ■ Your Growth Ladder

|                               |                                                                                         |              |
|-------------------------------|-----------------------------------------------------------------------------------------|--------------|
| STAGE<br><b>01</b><br>0–2 YRS | <b>Graduate / Trainee Engineer</b><br>Program, wire and test under senior guidance.     | ₹2.4 – 4 LPA |
| STAGE<br><b>02</b><br>2–5 YRS | <b>Automation / Project Engineer</b><br>Own commissioning and programming for projects. | ₹4 – 7 LPA   |
| STAGE<br><b>03</b><br>5–8 YRS | <b>Senior Engineer / Team Lead</b><br>Lead projects, clients and junior engineers.      | ₹7 – 12 LPA  |
| STAGE<br><b>04</b><br>8+ YRS  | <b>Project Manager / Automation Head</b><br>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 Automation System Engineer (3 months)**

**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.