



DURATION
20 Days

INDUSTRIAL AUTOMATION

COURSE & CAREER GUIDE · 2026

Electrical **Control Panel** Design

Course Details & Career Growth Guide

Design, wire and program electrical control panels — relay logic to PLC, HMI and VFD.

60 Training Hours

3 Modules

2 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

60 Hours

20 Days of structured,
practical training

2 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.

SHORT COURSE

Electrical Control Panel Design

Design, wire and program electrical control panels — relay logic to PLC, HMI and VFD.

20 Days

60 Hours

3 Modules

2 Projects

Classroom + hands-on lab

Part A • Course Details

Program Overview

A 20-day hands-on course in electrical control panel design. You learn relay wiring and panel layout, then add a Delta PLC, HMI and Danfoss VFD — the everyday skills of panel builders and electrical maintenance teams.

DURATION

20 Days

TRAINING HOURS

60 Hours

MODULES

3 Structured Modules

MODE

Classroom + hands-on lab

BATCHES

Weekday • Weekend • Fast-track

CERTIFICATION

TÜV SÜD + IPCS Global

Who Should Join

- ✓ ITI electricians & wiremen
- ✓ Diploma EEE students
- ✓ Panel-building & maintenance technicians

Eligibility: ITI or diploma in electrical/electronics, or equivalent field experience.

What You'll Be Able To Do

- ✓ Read and draw panel schematics
- ✓ Wire relay-logic and starter circuits
- ✓ Wire and program a Delta PLC
- ✓ Integrate HMI and VFD into a panel

The Full Syllabus

3 modules, 60 hours.

01	Relay Wiring & Electrical Control Panel	20 Hrs
02	PLC Programming	20 Hrs
03	HMI & VFD Programming	20 Hrs
Total Training Duration		60 Hours

Module-by-Module Topics

MODULE 01 Relay Wiring & Electrical Control Panel • Panel components: MCB, contactor, OLR, relays • DOL & star-delta starters • Control panel wiring & PLC wiring • Schematics & single-line diagrams	MODULE 02 PLC Programming • Introduction to PLC programming • Delta PLC ladder logic • Timers, counters & interlocks
MODULE 03 HMI & VFD Programming • Delta HMI design & interface • Danfoss VFD theory & practical • Panel integration & testing	

Tools, Projects & Assessment

Tools & Technologies You'll Use

Panel wiring kit

Delta PLC (ISPSOft)

Delta HMI (DOPSOft)

Danfoss VFD

Multimeter

Projects You'll Build

1	Star-delta starter panel
2	PLC-controlled motor panel with HMI & VFD

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 Electrical Control Panel Design 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

Panel Wiring Technician

Wires control and distribution panels to drawings.

2

Control Panel Designer

Prepares panel layouts and schematics.

3

Electrical Maintenance Technician

Maintains motors, starters and panels.

4

PLC Panel Technician

Wires and tests PLC-based panels.

5

Site Electrician (Industrial)

Installs and commissions plant electricals.

6

Panel Testing & QC Technician

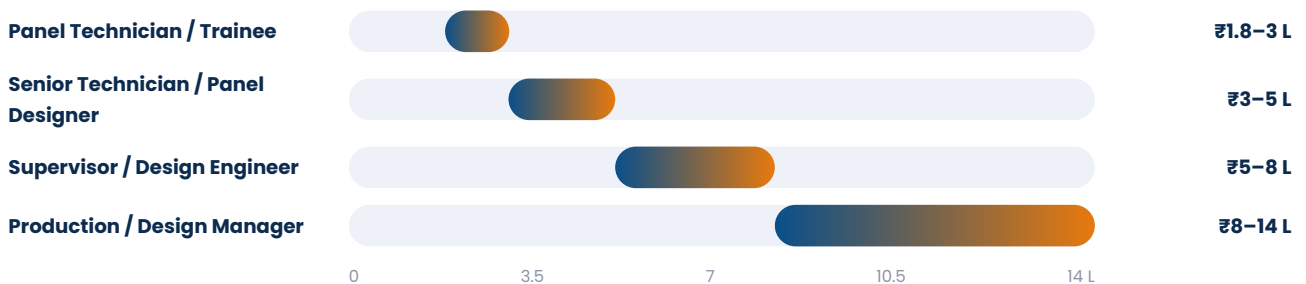
Tests panels before dispatch.

Good to know: Electrical Control Panel Design is a focused short course and a strong starting point for these roles; most learners reach them fastest by continuing with **AASP-4 (1.5 months)**.

■ Your Growth Ladder

STAGE 01 0-2 YRS	Panel Technician / Trainee Wire and test panels to drawings.	₹1.8 – 3 LPA
STAGE 02 2-5 YRS	Senior Technician / Panel Designer Design layouts and lead wiring teams.	₹3 – 5 LPA
STAGE 03 5-8 YRS	Supervisor / Design Engineer Supervise production and design.	₹5 – 8 LPA
STAGE 04 8+ YRS	Production / Design Manager Run a panel shop or design team.	₹8 – 14 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

- ✓ AutoCAD Electrical / EPLAN
- ✓ PLC programming (multi-brand)
- ✓ VFD & soft starter commissioning
- ✓ IEC standards & panel testing
- ✓ Estimation & costing

■ Certifications to Target

- ✓ Electrical licence / wireman certificate (state)
- ✓ TÜV SÜD automation certification
- ✓ AutoCAD Electrical certification
- ✓ Vendor drive certifications

■ Upgrade Path at IPCS Global

1 AASP-4 (1.5 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 Panel Technician / Trainee.

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.

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.

Q. Are classes held online or in the classroom?

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

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.

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.

Q. What certificate will I receive?

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

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.

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.

Q. Can working professionals join?

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

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
Web 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.