



Courses to follow!

- PCB Manufacturing, Soldering & Testing etc.
- Skills development for Electronics Manufacturing Services
- Quality Management
- Leadership & General Management

For Registration please find enclosed "Registration Form",
Mail: ipca@ipcaindia.org visit: www.ipcaindia.org



Indian Printed Circuit Association

690, 6A Cross, 3 Block, Koramangala
Bengaluru-560034, INDIA
Tel: +91 80 2550 5029 email: ipca@ipcaindia.org
www.ipcaindia.org www.ipcaexpo.com

YOUR CAREER ORIENTED PCB
DESIGNERS COURSE



CAREER ORIENTED PCB DESIGNERS COURSE

IPCA announces Training Programme aimed at developing Skills
for the PCB Industry for Professionals as well as Students
(as a part of its Industry – Institute Interface Programme).

Organised by



**INDIAN PRINTED
CIRCUIT ASSOCIATION**

IPCA Certified DESIGNERS COURSE - LEVEL 1

What is the course about?

This course provides a comprehensive presentation of technology available for PCB board design. It is well structured, Interactive and hands on. Course covers all aspects of CAD PCB design such as, design process, schematics, netlist, artwork dos and don'ts, libraries, Gerber creation, Report generation etc. Lab exercises provide requisite hands - on experience necessary for grounding.

You will learn:

- Various PCB design specifications and guide lines
- Various Design Considerations
- Introduction to various CAD tools
- How to use CAD tools effectively - steps from circuit design to PCB
- How to use Design Capture methods to create Netlists
- Schematic design
- Gerber generation and validation
- Silk screens and Solder masks
- Various types of tests to ensure PCB quality
- How to use the tools to avoid common design mistakes
- Characteristics of PCB laminate

Who should attend?

This Course is targeted at Under Graduates / Graduates, Diploma, ITI students with basic understanding of PCBs, PCBA & their functioning, Professionals from the PCB Industry, Executives who will be designing their Circuit board layouts and Managers whose core Profile is CAD/CAM based PCB design and who wish to progress in their Careers by moving up the Value chain.

- Fresher's with an aptitude in Electronics
- Practicing Technicians
- PCB designers
- Electrical & Electronics Engineers
- Executives & Business Managers with an aptitude in Electronics

Salient Features:

- Hands on tutorials on Computer terminals for all participants
- Insightful lectures with Case Studies
- **IPCA CERTIFICATION**

Course Introduction by Mr. M. Thiyagarajan Vice-President, Training Division of IPCA:

He has conducted numerous Designers Certification courses which has helped many Design Professionals to deliver quality design services as per International standards. Professional career in Design Service Bureau operations for over three decades has enabled Mr. Thiyagarajan to master various CAE/CAD/CAM Tools and deliver quality services for demanding applications like Space, Aviation, Military, Communication, and Automotive, Consumer electronics industry in India and abroad.



Instructor Profile: Mr. V. Ramanikumar

He has over 30 years experience in Electronics Development, Manufacturing, Customer Relations and Management in top positions in reputed Companies like DRDO, Gujarat Communications, Escorts, Telecom Technologies- HongKong, Solidaire, Tata Telecom, Bharti Telecom. He has expertise in Telecom, Mobile Communication, Embedded Design, Research & Development areas. Has developed and delivered courses for e-learning in Telecom, Wireless and Embedded Designs.

Over three decades of R&D responsibility has driven Mr. Ramanikumar to master PCB Design technology with focus on Design for Manufacture, Design for Testing, Design for Reliability of all types of PCBs from commercial, professional and military applications.

He is a professional instructor having delivered many courses and technical seminars and participants will greatly benefit from his vast experience...



PCB Designing:

is an excellent field for Electrical / Electronic Engineering, Diploma & ITI students to kick start their careers. With the Government of India's manufacturing policy to be announced soon the PCB market is set for a robust growth in the near future providing excellent Job opportunities for Engineers, Technicians & Skilled Professional's in the field of PCB Designing & Manufacturing.

Job Opportunities:

Job Opportunities exist globally - as an Entrepreneur, with PCB Manufacturers, Telecom, Automotive, Medical, Test & Measurement manufacturing Industries, Public Sector, Defence, R&D, Electronic Consumer Appliances, Industrial Automation & Power Electronics to name a few verticals.

