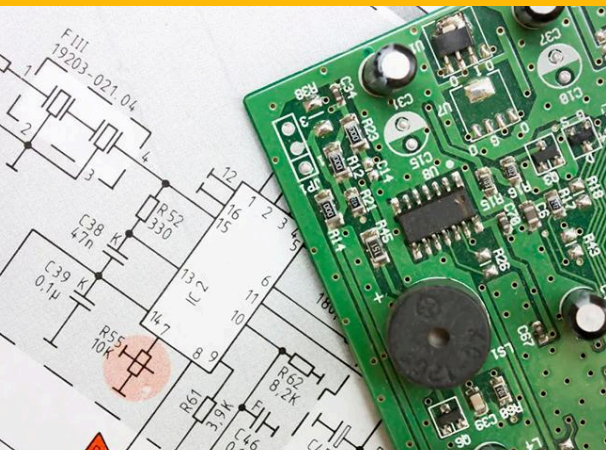


PCB DESIGN



This program provides a comprehensive introduction to Printed Circuit Board (PCB) design concepts and processes. Participants will gain insights into schematic creation, layout principles, design tools and PCB Fabrication process. Through instructor-led presentations and demonstrations, learners will understand essential design tools, workflows, and industry standards followed in PCB manufacturing.

Who can Participate

Operators, technicians, design engineers, and production personnel involved in electronics manufacturing, assembly, or testing who wish to gain knowledge of PCB design.

Benefits of Participation:

Participants will learn the key steps in PCB design from concept to production, understand design tools and layout optimization, and develop skills to improve product reliability and manufacturability

Certificate:

Participation certificate will be provided

Mode of Training

Instructor-led Training

Instructor

Certified IPC Designer (CID)

Duration: Full Day

Session No	Session Name	Description
1	Overview and Introduction to PCB Design <ul style="list-style-type: none"> Overview of PCB and its applications Types of PCBs: Single-layer, double-layer, and multi-layer and other complex PCBs Common materials used in PCB fabrication and limitations. 	General overview of the course

Session No	Session Name	Description
2	PCB Design Tools <ul style="list-style-type: none"> • Introduction to popular software, key selection criteria • Basic interface and key functions • Block Diagram and Simple schematic design • Industry standards, guidelines 	Presentation
	Schematic Design Basics <ul style="list-style-type: none"> • Component selection and placement • Understanding circuit diagrams • Net connections and DRC verification 	Presentation
3	PCB Layout Principles <ul style="list-style-type: none"> • Component placement strategies • Routing techniques (single vs. multi-layer routing) • Design for manufacturing, Assembly and testing (DFM/DFA/DFT) considerations 	Presentation
4	PCB Fabrication Process <ul style="list-style-type: none"> • Manufacturing steps: etching, drilling, surface finish • Assembly techniques (SMT, through-hole), Placement Soldering • Design documentation and file preparation for production (communication) 	Presentation
5	Q&A	Interaction with Instructor

IMPORTANT NOTES

- GST applicable at 18% on the quoted price
- 100% payment to be made before 7 working days of the course commencement
- Minimum 10 & maximum 20 candidates/batch
- Company will share candidates name & details (as per Global Electronics Association format) 7 days in advance before commencement of the course
- Session can be organized on Saturdays
- Participation Certificate shall be provided to the candidates on Global Electronics Association India letterhead
- For In-house Training, Travelling charges to and fro and stay of trainer should be booked by members only

Price	Non Member	Member
	INR 5,100	INR 3,600

For more information, please connect

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