PCB

PCB Design

dridhOn

Course Overview:

dridhOn PCB Design training is industry-designed to help you become a certified PCB design expert. You will learn about the key concepts of PCB, various PCB tools, like OrCAD, Altium, Cadence, Solid work designing the PCB Board, invoking a Schematics, Floorplanning, Analog circuits, Power analysis, Multilayer with Placements in the PCB environment, and more. The key guidelines for implementing PCB as part of the PCB certification training, as well as hands-on projects and case studies to ensure that you are Industry ready upon completion of the course.

Training Features:

- 8X higher interaction in live online classes conducted by industry experts
- 48 Hrs. live Classes of PCB Design Engineer with Interview Preparation
- 3 real-time industry projects with hands-on preparation
- Unlimited Interview Opportunities with Placement Support
- Industry-recognized course completion certificate

Delivery Mode:

- Online Live Virtual Instructor Led Training

Target Audiance:

The Basic Requirement to start a career as a PCB Design Engineer, you'll need a Bachelor's degree or at least 1+ years of experience in the Electrical or Electronics core. A Bachelor's degree in Technology justice will help you get the job.

Key Learning Outcomes:

The ability to do something well expertise.

- Floor planning
- Logic synthesis
- Power analysis and Optimization
- Analog circuits
- Schematics
- Multilayer Routing
- Auto Routing
- Smart Routing
- Placements
- Concept and Reliability of Simulation
- Gerber Generation

Certification Details:

- Complete at least 85 percent of the course or attend one complete batch
- Successful completion and evaluation of the project

Curriculum

Introduction:

- Introduction to various technologies in Electronics
- Introduction to Printed Circuit boards
- Types of Designing
- Concept of EDA

Design Specifications:

- Design and Architecture
- Floorplanning, Logic synthesis
- EDA databases, Simulation, and Logic simulation
- Power analysis and optimization
- Place and route
- Design for Manufacturability
- Design closure
- Design rule checking
- Layout versus schematic
- Layout extraction
- Automatic test pattern generation

Analog And Digital Electronics:

- Different types of Power supplies
- Basic Features Required in Power Supply
- Selection of different components of the Power supply according to load
- Analog circuits and their Importance
- Practical applications of different
- analog devices (BJT, FET, MOSFET, OPAMPS, etc.)
- Selection and implementation Of
- Components according to circuit application
- Designing of transistor-based (bipolar,
- FET, MOSFET) circuits
- Introduction to OPAMP and its
- practical implementation

Industrial Packages:

- Importance of packages in designing
- Package Details of different components
- Datasheet details
- Designing of Various Footprints according to Packages

Schematics:

- Design Environment
- Basic schematic rules
- Design flow & Schematics
- Component information Server
- Managing parts and libraries
- Editing tool Handling
- Adding text and graphics
- Making new parts
- Print & plotting
- Compatibility check
- Editing of Net list
- DRC & Processing of design

Layout:

- Concept of ECO & Making design files
- Managing footprints & libraries
- Making new footprints
- Tool handling for design
- The preliminary setting for making design
- Types of routing
- MULTI layer routing
- Auto placement
- Auto routing
- Copper pouring
- Smart routing
- Drill management
- DRC & Back annotation
- Post Processing

Simulation:

- Concept and Reliability of Simulation
- Tools & Design editing
- Waveform analysis
- Simulation models
- Checkpoints on board