

PCB Foundations Course Agenda

Course Overview

The PCB Foundations class was designed to walk you through the entire PCB design process. It is for anyone who has anything to do with a PCB- electrical and mechanical engineers, designers, program managers, and technicians.

- **Day 1 – PCB Manufacturing Flow**
 - A Brief History of the PCB
 - Fabrication Overview
 - Assembly Overview
 - Designing for ... (DFx)

- **Day 2 – Library Etiquette and Schematic Capture Flow**
 - Design Flow
 - Specification Writing
 - Symbol Library Flow
 - Symbol Creation
 - Intelligent Data
 - Footprint Library flow
 - Non-Copper Layers
 - Schematic Sheets
 - Schematic Capture

- **Day 3 – PCB Design Flow and Manufacturing Documentation**
 - PCB – The Groundwork
 - PCB - Component Placement
 - Routing Considerations
 - Fabrication Documentation
 - Assembly Documentation

The training exercises were developed to immerse you into the entire design process. Each exercise not only reviews the knowledge that was presented, but also presents real life PCB process challenges. This aspect of the exercises fosters thoughts and discussions with your fellow classmates and the instructor, empowering you to use the knowledge of this course immediately in your daily work life.

This course is taught by our senior engineers who have years of experience in PCB design and design flow. This course does not require you to know how to use a design tool. Though this course is based on Altium Designer, those using other tools will benefit from this instruction. SOLIDWORKS PCB and Cadence OrCAD/Allegro versions are available.

