

Bei dem hier beschriebenen Training handelt es sich um ein Cadence Standard Training. Sie erhalten eine Dokumentation in englischer Sprache. Die Trainingsprache ist deutsch, falls nicht anders angekündigt.

## Allegro PCB SI EMControl

### Description

EMControl is an analysis tool that helps verify printed circuit boards for compliance with electromagnetic standards.

To help meet EMC requirements you can use EMC design guidelines or EMC rules to screen a design for potential problems.

You can use the EMControl tool to detect problem areas in your design early in the design cycle and take immediate steps to resolve those problems.

EMControl helps you to detect problems by enabling you to repeatedly check your design against selected sets of EMC rules chosen by a user who has expertise in EMC.

The use of EMControl for design development is an iterative process. Throughout design development, the EMC expert, the design engineer, and the layout designer should confer to ensure that all constraints are being met. They should also define tradeoffs between constraints, and verify whether or not the completed design will meet all EMC requirements. The EMC expert can verify the design and identify new sets of EMC rules for further EMC rule checking at any time during the process.

#### The highlights of this class include the following:

- Placement Rules
- Bypass Capacitor Rules
- Power and Ground Plane Rules
- DC Routing Rules
- Signal Routing and Quality Rules
- Creating Rules Using the Advanced Rules Language

### Audience

- RF Designers
- Electrical Engineers

### Prerequisites

The student should have completed the SPECCTRAQuest Foundations course before taking this class.

In addition, the student should have:

- Basic understanding of the UNIX or Windows operating systems and commands
- Familiarity with digital/analog circuit design methodologies
- Working knowledge of printed circuit board design and signal analysis (some SPICE simulation processes; characteristics of electromagnetic theory; transmission line theory)

### Related Courses

[SPECCTRAQuest Foundations](#)