



## **Design for Manufacturability** (16 Hours)

The course presents the following information: design for manufacturability (DFM) introduction, core DFM statistics for capability evaluation, DFM twelve principles, evaluation of new products using a DFM scorecard and exploring redesign options. The course finishes with a DFM simulation to reinforce key DFM concepts.

**Software:** JMP, Excel

**Prerequisites:** ESDA recommended; however, not required.

### **Course Objectives:**

As a result of the course, the participant will be able to:

- Evaluate new designs and examine their manufacturability
- Determine product and process capability for both attributes and variables data
- Perform DFM scorecard analysis on new products
- Understand how to link current data systems to DFM analysis
- Link process flow and lean analysis to DFM
- Link FMEA activities to DFM
- Apply DFM to new product development and qualification

### **Course Outline:**

- A. Introduction to DFM  
Core DFM statistics
- B. Design for Assembly Principles
- C. Evaluating Design Quality
- D. Design Rules and Manufacturing Feedback
- E. Conducting a Detailed DFM Analysis  
DFM Simulation