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