

## Design for Manufacturing and Assembly



**Course Duration: 3 Days - 8 Hours/day**

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## Seminar Content

This three-day hands-on seminar is intended to provide insight on the influence of Design for Manufacturing & Assembly on quality, performance and cost.

## Learning Objectives

- ❖ Create advanced knowledge in DFMA (knowledge preparation)
- ❖ Development of cross-functional approach to share knowledge
- ❖ Use TGRs and TGWs from the DFMEA flow Plan for DFMA small group activities (component level) within a project
- ❖ Integrate DFMA in Product Design Process (proactive approach).
- ❖ Develop DFMA rules, standards and checkpoints
- ❖ Establish and integrate DFMA in the management system
- ❖ Utilize the DFMA to achieve success in New Product Development
- ❖ Implement and sustain a DFMA program impact (sustainability)
- ❖ Establish metrics (KPI) for monitoring DFMA implementation
- ❖ Review mechanism and updating DFMA manual and checklists
- ❖ Boothroyd-Dewhurst Evaluation Method
- ❖ Breakout Exercise 2: Design Evaluation — Boothroyd Dewhurst Method
- ❖ Lucas DFA Method
- ❖ Breakout Exercise 3: Design Evaluation — Lucas Method
- ❖ Design for Assembly Rules and Manual Assembly Rules
- ❖ Design for Assembly Rules
- ❖ Manual Assembly Rules
- ❖ Developing DFA Checklists
- ❖ Steps in Developing a DFA Manual and Checklist
- ❖ Breakout Exercise 4: Complete a DFA Checklist
- ❖ Design for Manufacturing Rules
- ❖ Design Rules for Specific Processes with Exercises
- ❖ Breakout Exercise 5: Evaluate the Manufacturability of a Design
- ❖ Developing DFM Checklists
- ❖ New Product Development Methodology
- ❖ Introduction to Characteristics Linkage and Flowdown
- ❖ DFMA Integration in Product Development Cycle
- ❖ Effectiveness Monitoring / Evaluation and Review

## Seminar Outline

- ❖ Overview of DFMA
- ❖ DFMA General Design Rules
- ❖ Breakout Exercise 1: Design Evaluation — General Design Rules
- ❖ Methods for Evaluating the Design for Assembly

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## Who Should Attend

- ❖ Program Managers
- ❖ Project Managers
- ❖ Quality Managers
- ❖ Design Engineers
- ❖ AQP Team Members

## Seminar Materials

Each participant will receive a seminar manual and a workbook including all team breakout exercises.

## Pre-Requisite

Participants should possess a working knowledge of quality systems and methodologies.

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