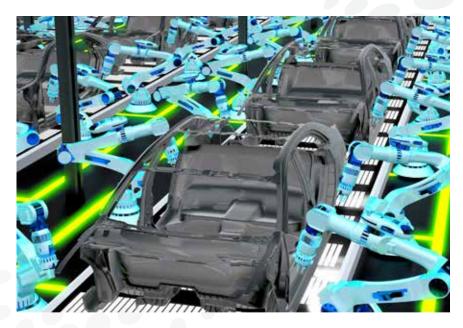


DRIVING WORLDWIDE BUSINESS EXCELLENCE



# Design for Manufacturing and Assembly



Course Duration: 3 Days - 8 Hours/day

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# **Design for Manufacturing and Assembly**

## **Course Duration: 3 Days**

### 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

### **Seminar Outline**

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

- 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

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# **Design for Manufacturing and Assembly**

**Course Duration: 3 Days** 

# 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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