

Aerospace Risk Management and Analysis Series Design Tools Including SFMEA / DFMEA and Associated Tools



Course Duration: 2 Days - 8 Hours/day

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Seminar Content

This two-day hands-on seminar is intended to offer insight into, and hands-on experience with, the linkages between various aspects of the Advanced Product Quality Planning (APQP) process. Specifically, the development and linkage of Block Diagrams, System and Design FMEAs and Design Verification (Test) Plans (DVPs) are addressed.

SFMEAs are performed during the Design phase of APQP for Risk Management and Prevention. SFMEAs are used to identify Special Requirements, Critical Items and Key Characteristics to assist in the flow-down to sub-assemblies and components.

Learning Objectives

- ❖ Provide a hands-on approach to S/DFMEAs and their relationship to program deliverables and status reporting
- ❖ Provide the competencies needed to introduce new products and processes smoothly
- ❖ Gain knowledge and understanding in:
 - ❖ Block Diagrams and Interface Matrix
 - ❖ Linkages between Block Diagrams, SFMEAs, DFMEAs, DVP and other design tools
 - ❖ Linkages between PFMEAs and S/DFMEAs
 - ❖ Using FMEA as an analytical process S/DFMEAs and DVPs

Seminar Outline

- ❖ FMEA Introduction
- ❖ Putting an FMEA Together
- ❖ DFMEA Prerequisites
- ❖ Breakout Exercise: Customers & Functional Requirements

- ❖ Breakout Exercise: Boundary Diagrams
- ❖ Developing the DFMEA
- ❖ Breakout Exercise: Starting the DFMEA Form
- ❖ Breakout Exercise: Failure Modes
- ❖ Breakout Exercise: Design Causes
- ❖ Breakout Exercise: Design Control
- ❖ Breakout Exercise: Effects, Severity and Action Plans
- ❖ DFMEA – Component Level
- ❖ Breakout Exercise: Developing a Component DFMEA
- ❖ Test Planning and Reporting

Who Should Attend

- ❖ Program Managers
- ❖ Project Managers
- ❖ Quality Managers
- ❖ Process Engineers
- ❖ PPAP Coordinators
- ❖ APQP Team Members
- ❖ All other Risk Management personnel

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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