

# Failure Mode Effects Analysis

2 Day Workshop Highly Interactive Course

## Workshop Overview

Customers are placing increased demands on companies for high quality, reliable products. The increasing capabilities and functionality of many products are making it more difficult for manufacturers to maintain the quality and reliability. Traditionally, reliability has been achieved through extensive testing and use of techniques such as probabilistic reliability modelling. These are techniques done in the late stages of development. The challenge is to design in quality and reliability early in the development cycle.

To be competitive, organization must continuously improve. Failure Mode and Effect Analysis is a technique that offers a methodology to facilitate process improvement.

## Workshop Objective

By the end of this two-day course, participants will be able to:

- Document the Process Flow
- Perform an Initial Risk Assessment
- Develop an FMEA Strategy
- Perform the FMEA
- Prioritize Risk
- Develop Action Plans
- Document Control Plans
- Contribute Significantly to Future FMEAs

## Workshop Outline:

1. The Case for Failure Modes and Effects Analysis
2. The Philosophy and Guiding Principles for Effective FMEAs
3. Understanding the Fundamental Definitions and Concepts of FMEAs
4. Selection and Timing of FMEA Projects
5. How to Perform an FMEA Project: Preparation
6. How to Perform an FMEA Project: Procedure
7. How to Develop and Execute Effective Risk Reduction Actions
8. Case Studies
9. Lessons Learned for Effective FMEAs

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10. How to Facilitate Successful FMEA Projects
11. Implementing an Effective Company - Wide FMEA Process
12. Failure Mode Effects and Criticality Analysis (FMECA)
13. Introduction to Design Review Based on Failure Modes ( DRBFM )
14. Introduction to Fault Tree Analysis ( FTA )
15. Other FMEA Applications: Reliability - Centered Maintenance (RCM) - Hazard Analysis - Concept FMEA - Failure Modes, Mechanisms, and Effects Analysis - Failure Modes, Effects, and Diagnostic Analysis

### Other Details:

- Payment to be made within 15 days from the date of the invoice.
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