

Failure Mode Effects Analysis

This two-day course teaches participants how to do process failure mode analysis using storyboards. The course gives an overview of techniques that support development of Failure Mode Effects Analysis (FMEA). These techniques include block diagrams, experiments, and fault tree analysis to produce a design FMEA. Participants practice performing failure mode effects analysis using a computer software program called FORMUSER.

I. Introduction

- Quality and Reliability
- Failure Mode and Effects Analysis
- A Systematic Process
- History
- Purpose/Benefits
- DFMEA and PFMEA

VI. FORMUSER Software

II. DFMEA

- When are DFMEA's Performed?
- What Characterizes a Candidate?
- Who Performs DFMEA's?
- What Resources and Tools are Used?
- How is the Process Performed and Documented?

III. PFMEA

- When are PFMEA's Performed?
- Who Performs PFMEA's?
- What Resources and Tools are Used?
- How is the Process Performed and Documented?
- The PFMEA Form

IV. Examples/Activities

V. Tools

- DFMEA
- Capability Studies