

Reliability Academy

Workshop: FMEA-analysis

Example

Date: mm dd, 2012
Venue: Company

Example

This 1-day course introduces the most widely used reliability engineering method FMEA (=Failure Modes and Effects Analysis). It is used to improve product designs (Design FMEA) or the manufacturing system (Process FMEA) as initially described in the QS 9000 standard for automobile industry. The goal of the FMEA course is to teach the participants the most effective ways to complete a successful FMEA-project. Some practical FMEA documenting tools are also introduced.

Day 1	Tuesday 7.2.
8:45	WELCOME and Introduction of the Course Program (+ coffee/tea)
9:00	A1. Reliability Engineering Basics <ul style="list-style-type: none"> - Reliability terms and concepts: failure definitions - Selecting methods, ensuring sufficient risk detection
10:00	A2. Introduction to FMEA <ul style="list-style-type: none"> - Generic FMEA forms - Different types of FMEA, how to select
10:45	Exercise 1/ individual: Understanding failures.
11:30-12:00	LUNCH
12:00	Exercise 2 / team work: Failure severity using Risk Priority Number (RPN)
12:30	A3. System Description in FMEA: Product Tree and Block Diagram <ul style="list-style-type: none"> - Using Product Tree in FMEA - Using Functional Block Diagrams in FMEA - Functional FMEA vs. Component FMEA.
13:30-13:15	COFFEE/TEA
13:15	Exercise 3 / team work: System Analysis: a. Functional FMEA, b. Component FMEA
14:30	A4. FMEA as in standard QS 9000: Design FMEA and Process FMEA <ul style="list-style-type: none"> - D-FMEA and P-FMEA forms. - Examples of D-FMEA and P-FMEA - FMEA tips and Tricks - System improvement and FMEA
15:45-16:00	SUMMARY, discussions

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