

Reliability Academy

Workshop: FMEA-analysis

Example

Date: 04-2013
Venue: Your Company

Example

This 1-day course introduces the most widely used reliability engineering method FMEA (=Failure Modes and Effects Analysis). Product design can be supported and improved with Functional FMEA and Component FMEA. Standard QS-9000 describes also the method Design FMEA, as well as the Process FMEA for manufacturing system improvements. The goal of this course is to show the participants the most effective ways to complete a successful FMEA-project, including practical FMEA documenting tools and practices.

Day 1	FMEA-Analysis	
8:15	<i>WELCOME and Introduction of the Course Program (+ coffee/tea)</i>	
8:30	A1. Reliability Engineering Basics <ul style="list-style-type: none"> - Reliability terms and concepts: failure definitions - Selecting methods, ensuring sufficient risk detection 	
9:15	A2. Introduction to FMEA <ul style="list-style-type: none"> - Generic FMEA forms - Different types of FMEA, how to select 	
10:15	1. Exercise/ individual:	Understanding failures.
11:00-11:30	<i>LUNCH</i>	
11:30	2. Exercise/ team work:	Failure severity ranking using Risk Priority Number (RPN)
12:00	A3. System Description in FMEA: Product Tree or Block Diagram <ul style="list-style-type: none"> - Using Product Tree or Functional Block Diagram in FMEA - Functional FMEA vs. Component FMEA. 	
13:00-13:15	<i>COFFEE/ TEA</i>	
13:15	3. Exercise/ team work:	System Analysis: a. Functional FMEA, b. Component FMEA
14:15	A4. 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 	
14:30	4. Exercise/ team work:	System Analysis: YOUR COMPANY'S example system
15:45	A5. Summary <ul style="list-style-type: none"> - FMEA tips and Tricks - System improvement and FMEA - Discussion 	
16:15	END	

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