

Workshop

ON

Design Failure Mode and Effects Analysis

Context

Beginning in the early 1980s, the skyrocketing of product liability cost and non-ending court activities made the FMEA become a vital tool in the occurrence of failures. Since then, the FMEA process has been spreading among the fortune 500 companies. This has been transitioned from in-house concerns to supply base. In 1993, the Automotive Industry Action Group (AIAG) which includes, and the American Society of Quality Control adopted a standard approach to FMEAs

FMEA is an analytical technique used to ensure that potential problems in product design or process have been considered and addressed. Ideally, a Design FMEA should be carried out in the early stages of design and a process FMEA should be carried out before tooling or manufacturing equipment is purchased. FMEA can also be applied to non-production areas. FMEA tools are widely used by Fortune 500 companies and finds particularly wider use in automobile (e.g. Ford, GM and Chrysler) and engineering industries.

Objectives

The two - day workshop will allow the participants to understand first hand the process of FMEAs. It shall allow them to understand the objectives, benefits and limitations of FMEAs.

Contents

- Introduction
- The Reason for doing FMEA
- What is an FMEA
- Types of FMEA
- FMEA Purpose
- DFMEA Quality Objectives
- Benefits of DFMEA
- Process of Doing DFMEA
- FMEA Roadmap (Design and Process)
- 10 steps to improve DFMEA
- FMEA Limitations
- Linkage of QFD/Risk Analysis/DOE/SPC/FMEA/FTA
- DFMEA

- Checklist
- DFMEA Timeline
- System Breakdown Example
- Function
- Potential Failure Mode
- Effects of Failure
- Potential Causes
- Current Controls
- Relationship between PHA and DFMEA
- DFMEA Examples
- Interpretation of DFMEA's – 2 Methods
- Strategy for addressing Failure Modes
- Severity Occurrence and Detection Criteria
- Implementation of DFMEA's

Course Certificate: Each participant will be entitled for a training certificate.

Trainers' Profile: The workshop will be conducted by Mr. Shanti Sarup, an ex Tata Motors senior executive who has conducted a number of successful training programmes. He is a certified Quality Engineer and a trained lead assessor

Participant's profile: The workshop would be found relevant and useful for supervisors, engineers and managers from areas such as HR, Marketing, Sales, Design, Planning, Manufacturing, Materials, Maintenance, Logistics, Service and QA from both manufacturing and service organizations.

For further details, fee or quotation, please contact:

Training Coordinator

AQTS Inc.

Phone: 281 565 2447

Fax: 713 481 8434

Email: Sales@aqts-usa.com