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APPLICATION OF FAILURE MODES AND EFFECTS ANALYSIS (FMEA)

OVERVIEW

Organizations are striving to be competitive with products that have high quality levels that delight customers. In this effort, Quality Control Plans (QCPs) are essentially created to ensure the design and manufacturing processes are within specifications and controls. Comprehensive QCPs from Design and Process Failure Mode & Effects Analysis (FMEA).

FMEA is considered a useful risk analysis tool to identify and prioritize potential failures of a product or its related processes and could guide organizations to great improvements to its product reliability and system diagnosis. This program course aims to demonstrate how effective the FMEA principles are deployed to assist related departments in developing an effective control plan.

COURSE OUTLINE

- Type of FMEA's
- Three phases of FMEA
- FMEA using the military standard (MIL-STD 1629A) format
- Design criteria
- Developing a design FMEA
- Developing a process FMEA
- Failure scenarios
- Traditional failure modes
- Life cycle failure scenarios
- Function-structure mapping
- Concept of occurrence-severity-detection (OSD)
- Tabulation of risk priority number (RPN) and cost of failures
- What is a control plan?
- Developing a control plan based on FMEA
- Control methods and reaction plans

OBJECTIVE

- Improve product/process reliability and quality
- Conduct early identification and elimination of potential product/process failure modes
- Prioritize product/process deficiencies
- Capture engineering/organization knowledge
- Effectively perform problem prevention
- Documents risk and actions taken to reduce risk
- Provide focus for improved testing and development
- Minimizes late changes and associated cost

Technical Series

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