



CONTINUING EDUCATION

Process FMEA with Control Plans and Reaction Plans

CEQAL 503

Evaluate and prioritize the risks in your processes. Take targeted action to reduce risk, thus proactively addressing potential quality, costs, safety and delivery concerns. This workshop-intensive seminar addresses each step of the PFMEA process and allows participants to work in a team environment during the construction of a PFMEA.

Who Should attend: Individuals from engineering, quality, purchasing manufacturing or other areas who might participate in the development of a Process FMEA.

Prerequisite: None

CEU's Credits: 1.6

Duration: 16 Hours – 2-day course

Course Content: **FMEA and Quality Systems**

- ISO/TS 16949
- PPAP
- APQP

Basic FMEA Concepts and Terminology

- The FMEA and Control Plan Relationship
- Definition and Purpose of FMEAs
- FMEAs and Risk Reduction
- Types of FMEAs
- The Benefits of Process FMEA

Team Approach to the Process FMEA

Defining the Process with Process Flow Diagrams

Process Functions and Failure Modes

Cause-Failure Mode-Effect Diagrams

- Understanding the Cause/Effect Relationship
- Creating the Cause-Failure Mode-Effect Diagram

Current Process Controls

- Types of Controls

Risk Analysis

- Estimating the:
 - Severity of the Potential Effects
 - Occurrence Rate of Cause/Failure Mode Mechanism
 - Capability of Manufacturing Process Controls to Detect the Failure Mode

Documenting the FMEA using the FMEA form

Risk Reduction by Taking Action

Keeping the FMEA Alive

Developing Control Plans from the PFMEA

Developing Reaction Plans from the PFMEA

Each participant will receive a comprehensive manual and a Certificate of Completion at the close of the seminar.