

AS9100 Rev. C Risk Management

Course Description

This course addresses the specific requirements of AS9100 Revision C that are related to Risk Management, how they are addressed at the different phases of product design, development and realization, and the major tools that are used (FMEA).

Through presentation and group exercises, this course will help participants acquire the knowledge and skills necessary to understand and interpret the FMEA 4th Edition guideline requirements for their respective companies and how to develop and implement FMEAs within their organization's operations.

Learning Objectives

Through a combination of presentation, exercises and group discussion, attendees will learn the following elements, all based on FMEA 4th edition requirements:

The Risk Management Process

- Overview
- Benefits of Risk Management
- Basic Principles of Risk Management
- The Risk Management Framework
- The basic Risk Management Process

Understanding The Risk Management Requirements of AS9100 Rev. C

- Review of the specific AS9100 risk requirements:
 - Assignment of responsibilities for risk management.
 - Definition of risk criteria (e.g. likelihood, consequences, risk acceptance).
 - Identification, assessment and communication of risks throughout product realization.
 - Identification, implementation and management of actions to mitigate risks that exceed the defined acceptance criteria.
 - Acceptance of risks remaining after implementation of mitigating actions.

How Risk Management is Addressed at Different Phases

- Maintaining risk management activities during all phases of product life.
- Identifying project phases when risk management activities are performed and updated.
- Ensuring that risk analysis is updated when new components, processes, sub-processes or suppliers are introduced.
- Incorporating continual improvement and lessons learned from previous activities.

Understanding the Role of FMEA in Managing Risk Through the Product Life Cycle

- Purpose, uses and definitions.
- When FMEAs are performed and who should be involved.

DESIGN FMEA (DFMEA)

- Uses and benefits.
- Steps in developing a Design FMEA.
- Use of diagrams (Boundary Diagram, Parameter Diagram, etc.)
- Review of the Design FMEA form, including the different steps and special criteria required:
 - DFMEA Severity Evaluation Criteria
 - DFMEA Occurrence Evaluation Criteria
 - DFMEA Detection Evaluation Criteria
- Follow-up actions.
- Workshop exercise in Design FMEA.

PROCESS FMEA (PFMEA)

- Uses and benefits.
- Steps in developing a Process FMEA.
- Review of the Process FMEA form, including the different steps and special criteria required:
 - PFMEA Opportunity for Detection Criteria
 - PFMEA Occurrence Evaluation Criteria
 - PFMEA Detection Evaluation Criteria
- Follow-up actions.
- Workshop exercise in Process FMEA.

Who Should Attend

- Quality Managers or other personnel responsible for quality management and quality planning.
- Engineers or other personnel responsible for the design and engineering process and/or the management of risk through the product life cycle.
- Managers responsible for risk management and mitigation in the organization.
- Quality auditors and/or quality team members.

Location

On-Site

Course Length

2 Days