

2-Day

AS13004 PFMEA & Control Plans Risk Requirements

Aerospace Quality Management Systems

Register by phone

919-635-5581

Register online

www.apexqualityassurance.com



At A Glance

Risk Requirements Training for Aerospace Quality Management Systems

This course provides a comprehensive overview of aerospace risk management principles and practices, with a specific focus on the requirements outlined in AS9100, AS9110, AS9120, and AS13004. Participants will gain a deep understanding of these standards and learn how to apply them to identify, assess, and mitigate risks that may impact aerospace organizations and their stakeholders.

This course covers topics such as conducting thorough risk assessments, prioritizing risks based on their severity and likelihood, implementing effective risk mitigation strategies, ensuring product and service safety and effectiveness, and optimizing processes to improve efficiency.

By the end of this course, participants will be well-prepared to implement a robust risk management program within their organization, enhancing product safety, reducing costs, and improving overall operational performance.





AS13004 PFMEA & Control Plans (2-Day)

Who Should Attend

Risk Requirements Training for Aerospace Quality Management Systems

This course is designed for organizations that require a systematic approach to risk identification, assessment, and management. This includes companies subject to the stringent requirements of AS9100 Operational Risk Management and AS13004 PFMEA and Control Plan standards. Additionally, professionals such as Quality Managers, Management Representatives, Engineering Managers, Internal and External Auditors, Design and Project Teams will find this course beneficial in strengthening their risk management skills and knowledge.



Seminar Goals

Risk Requirements Training for Aerospace Quality Management Systems

- Understand and Apply Risk-Based Thinking: Grasp the core concepts of risk-based thinking as outlined in ISO 31000.
- Learn how to integrate risk-based thinking into ISO 9001:2015 and AS9100 quality management systems.
- Master Operational Risk Management: Gain a deep understanding of AS9100 operational risk management requirements.
- Learn how to utilize AS13004 for effective PFMEA and control plan development.
- Utilize Risk Assessment Tools: Master the use of DFMEA, Process Flow Diagrams, PFMEAs, and Control Plans in risk assessment.
- Learn how to apply these tools to identify, analyze, and mitigate risks.
- Apply Risk Management to Any Organization: Discover the universal applicability of risk management principles.
- Learn how to tailor risk management strategies to specific organizational contexts.
- Demonstrate Risk Management Effectiveness: Learn how to communicate risk information clearly to customers and stakeholders.
- Develop strategies to assure stakeholders of effective risk management practices.
- Prioritize Risks Effectively: Understand the importance of quantifying risk.
- Learn how to prioritize risks based on their potential impact and likelihood.
- Manage Supply Chain Risks: Identify and assess supply chain risks.
- Implement effective strategies to control and mitigate supply chain risks.

Seminar Outline

Risk Requirements Training for Aerospace Quality Management Systems



Day 1: Foundations of Risk Management

Risk Management Basics

- Introduction to Risk Management: Defining Risk: Understanding Risk, Hazard, and Uncertainty
- The Four-Step Risk Management Process:
 - Risk Identification
 - Risk Analysis
 - Risk Evaluation
 - Risk Treatment
- Risk-Based Thinking: The Role of Risk-Based Thinking in ISO 9001:2015 and AS9100D
- Integrating Risk-Based Thinking into Quality Management Systems
- Strategic vs. Operational Risk Management: Distinguishing Between Strategic and Operational Risks
- Aligning Risk Management Strategies with Organizational Goals

Practical Risk Management Techniques

- Risk Assessment Tools and Techniques: SWOT Analysis
- PESTLE Analysis
- Failure Mode and Effects Analysis (FMEA)
- Hazard Analysis and Critical Control Point (HACCP)
- Risk Prioritization Techniques: Risk Matrix
- Risk Scorecard
- Hands-on Exercise 1: Identifying and Assessing Risks in a Hypothetical Scenario

Day 2: Aerospace Risk Management and AS13004

Aerospace Risk Management

- Aerospace-Specific Risk Terminology: Key Terms and Definitions in the Aerospace Industry
- APQP and PPAP Risk Management Tools: Process Flow Diagrams: Visualizing Process Steps and Potential Risks
- PFMEA: Identifying and Assessing Potential Failure Modes and Effects
- Control Plans: Developing Effective Risk Mitigation Strategies
- Hands-on Exercise 2: Conducting a PFMEA for a Specific Aerospace Component

Operational Risk Management and AS13004

- Operational Risk Management: Understanding Operational Risks and Their Impact
- Implementing Effective Operational Risk Management Systems
- AS13004: Process Failure Modes and Effects Analysis and Control Plans: Overview of AS13004 Requirements
- Applying AS13004 to Conduct PFMEAs and Develop Control Plans
- Meeting Operational Risk Management Requirements Through AS13004

Case Study: Applying AS13004 to a Real-World Scenario

Attendees successfully completing the examinations provided in conjunction with this course receive a Certificate of Completion from APEX Quality Assurance.

The Certificate of Completion provides evidence of knowledge competency as a Quality Management Systems Auditor.