

Introduction to AIAG-VDA FMEAs Course Outline

Lesson 1 | What is an FMEA?

- Know what an FMEA is and why an FMEA is used.
- Understand how an FMEA is conducted on a conceptual basis.

Lesson 2 | Purposes of FMEAs

- Understand how the systematic FMEA approach gets us to dig into the details of the design or process under study to identify potential risks.
- Realize how an FMEA helps identify risks, prioritizes the risks relative to one another and focuses efforts on an action plan to reduce the risks.

Lesson 3 | Adding Value with FMEAs

- To gain an appreciation for how FMEAs add value to the organization.

Lesson 4 | Types of FMEAs

- Explain the differences between a DFMEA (Design-FMEA) and a PFMEA (Process-FMEA).
- Recognize that alternative types of FMEAs do exist and understand the reasons for their use as well as the differences in the tactics used to conduct them.

Lesson 5 | The FMEA Process

- Be familiar with the 7 steps used to conduct an FMEA.
- Understand how Failure Chains work.
- Understand how evaluation criteria is used to rate the levels of Severity, Occurrence and Detection.
- Become aware of how Action Priority Tables establish Action Priority (AP) levels for potential risks.

Lesson 6 | Assembling an FMEA Team

- Understand how to assemble an effective Core Team for conducting FMEAs.
- Recognize how an Extended Team complements the Core Team
- Appreciate the role of Subject Matter Experts when conducting an FMEA.
- Be aware of how the Five T's are used to ensure successful team start-ups.

Lesson 7 | Best Practices for Conducting FMEAs

- To become familiar with six (of the) best practices for conducting FMEAs.

Challenge

- An assessment of the learner's progress in this course.