

Design-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 works on a conceptual basis.

Lesson 2 | Purpose of an FMEA

- Understand how the systematic FMEA approach getting us to dig into the details of the product 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 | Assembling an FMEA Team

- Apply criteria to assemble an effective FMEA team.
- Understand the role of a Subject Matter Expert when conducting an FMEA study.

Lesson 4 | DFMEA Start-Up

- How to define the scope of a DFMEA.
- How to break the study into two or more DFMEAs if the scope is too large.
- How to use a DFMEA Scope Worksheet to clarify and communicate the scope of the study.

Lesson 5 | 10 Steps to Conduct a DFMEA

- Step-by-step directions on conducting a DFMEA.
- Guidance on the use of the FMEA Analysis Worksheet.
- Techniques for customizing the Severity, Occurrence, and Detection Ranking Scales for a DFMEA.

Lesson 6 | Getting More Out of Your DFMEA

- Tips on the best times in a product's life cycle to conduct a DFMEA.
- Tips on how to use the results of an FMEA to trigger continuous improvement.

Lesson 7 | DFMEA Example

- An example of the application of a DFMEA, working through all 10 steps.

Challenge

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