

FMEDA Specialized Training and Workshop

Date:	On Request
Duration:	2 Days
Location:	Public, Virtual, & In-Person
Price:	On Request

Why SRES?

At SRES, our training courses are guided by industry professionals with extensive real-world experience, providing you with practical insights and knowledge to excel in the rapidly evolving fields of Functional Safety, Cybersecurity, and Responsible AI.

Course Overview:

This two-day advanced training and workshop presents all of the information required to perform the quantitative FMEA (FMEDA) according to the ISO 26262:2018 standard. The training provides hands-on exercises to iteratively build your knowledge into conducting the FMEDA. After the basic principles have been established, the training digs deeper into more advanced topics based on real-world experience conducting FMEDAs. All participants in the training receive an FMEDA tool to use during and outside of the training. Following a workshop format, participants will be presented with an actual automotive circuit design and asked to conduct the FMEDA with the support of the instructor. The training is ideal for hardware developers, functional safety managers and functional safety assessors. The training is provided by automotive functional safety experts with vast experience working with OEMs, suppliers and semiconductor manufacturers to successfully build functional safety into their organizations.

Training Objectives:

The objective of this training is to provide hardware engineers with insights of how to properly perform the FMEDA to meet the requirements of the ISO 26262:2018 standard regarding quantitative FMEA safety analyses. The training provides a deep dive into practical aspects of the FMEDA. The course offers opportunities for questions and exchange of experience from SecuRESafe's automotive functional safety experts.

- **Overview on Safety Analyses – What are they and why do I need them?**
- **FMEDA Basics – What is the FMEDA?**
- **ISO 26262 Metrics – What is required by the standard?**
- **Diagnostic Coverage – How do I estimate it?**
- **FMEDA Template – How do I perform the FMEDA?**
- **FIT Rate Calculations – Where do I get them?**
- **Advanced Topics – What are Confidence Levels? How do vendors provide FIT rates? What is EEC? What is the impact due to decomposition?**
- **FMEDA Exercise with Actual Circuit – FMEDA Tool Provided to all Participants**