

# Reliability Academy

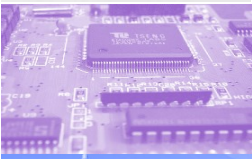
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## Webinars and Training Courses



### R01. Reliability Engineering Basics, 1 or 2d

Students will get the practical knowledge of techniques and tools used by professionals in product and system design. The webinar will teach you the key terms, methods and concepts in Reliability Engineering. The webinar also presents calculation examples and exercises for hands-on learning.  
**Prior knowledge:** Basic statistical methods.



### R02. FMEA – Failure Modes and Effects Analysis - 1d

Students will learn how to apply the FMEA method into product design. The webinar presents the fundamentals of Reliability Analysis, with various techniques, tools, and documentation along with the most efficient application methods.  
**Prior knowledge:** Basic statistical methods would be helpful.



### R03. Reliability of Electronics – Failure rate computation - 1d

Students will get fundamental knowledge of Electronics Reliability, along with calculation techniques and tools. This will enable you to estimate and strategize the MTBF or Failure rates of electronic products in different operational environments, and take these into product design.  
**Prior knowledge:** Basic statistical methods.



### R04. Accelerated Reliability Testing - 1 or 2d

The objective is to equip designers and test engineers with the skills to plan and execute accelerated reliability tests (ALT, AST/HALT) in a practical settings. The webinar will present these methods with examples of application in product design.  
**Prior knowledge:** Basic statistics.

### S01. Risk Analysis Basics - 1d

The webinar will introduce the principles of the most used Risk Analysis methods. Students will learn how to choose appropriate methods for their technology projects. Estimations of Risk magnitude will be presented. Discussions will include, how to organize a risk analysis project, using the effective risk management tools and typical documentation.  
**Prior knowledge:** Basic statistical methods would be helpful.

### S02. Functional Safety – EN 61508, Application, Calculations - 1 or 2 d

The course provides students with a fundamental comprehension of Functional Safety, as outlined in EN 61508. It introduces techniques and tools for calculating the MTBF and SIL (Safety Integrity Level) of electronic products. Additionally, it highlights the key documents necessary in the context of EN 61508.  
**Prior knowledge:** Basic statistical methods.

### S03. Product Assurance Management - 2d

The course covers the fundamentals of Product Assurance (PA) of space-qualified or high-reliability instruments. It will guide students to establish a PA Management Plan with procedures, and tools that align with space technology standards, such as the ESA ECSS-series. The organization of PA activities is discussed, including the necessary documentation and practices.  
**Prior knowledge:** Project Management basics.

### - Reliability Academy -

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*We enable our clients to design superb technology products by eliminating product liability risks.*  
Reliability Academy Finland is an independent training organization established in 2008 by top Reliability Experts and Systems Engineers.

**AL Safety Design**

