

Reliability Academy

www.reliabilityacademy.fi

Webinars and Training Courses



R01. Reliability Engineering Basics, 1 or 2d

The Students will get a basic understanding of Reliability Engineering techniques and practical tools to support product/ system design. You will be familiarized with Reliability terms, methods and concepts. Calculation examples and exercises are included.

Prior knowledge: Basic statistical methods.

S01. Risk Analysis Basics - 1d

The principles of the common Risk Analysis methods are introduced. The students will learn how to select a suitable methods for a technology projects. The Risk magnitude estimations are presented. Organizing a risk analysis project is discussed, including effective risk management tools and documenting practices.

Prior knowledge: Basic statistical methods would be helpful.



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

The students will get understanding how to implement FMEA -method into product design. The Reliability Analysis basics, techniques and tools are presented, with the most effective ways of application.

Prior knowledge: Basic statistical methods would be helpful.

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

The course gives the students a basic understanding of Functional Safety as in the EN 61508. Techniques and tools are introduced to determine the MTBF and SIL (Safety Integrity Level) of electronic products, as well as the most important documents required in the 'EN 61508 world'.

Prior knowledge: Basic statistical methods.



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

The students will get a basic understanding of Reliability of Electronics, calculation techniques and tools in order to determine and plan the MTBF or Failure rates of electronic products in different operation environments, and how to include them in product design.

Prior knowledge: Basic statistical methods.

S03. Product Assurance Management - 2d

The principles of Product Assurance (PA) in developing space qualified or high reliability instruments: - How to set up the PA Management Plan, procedures and tools, compatible with space technology standards, e.g. ESA ECSS-series. The organization of the PA activities are discussed, including documents and practices.

Prior knowledge: Project Management.



R04. Accelerated Reliability Testing - 1 or 2d

The goal is to enable the designers and test engineers to plan and conduct accelerated reliability tests (ALT, AST/HALT) in practice. The methods with examples are presented and can be used in product design projects. **Prior knowledge:** Basic statistics.

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

