

Reliability Academy

Reliability Engineering Training Courses

Reliability Engineering Basics: Terms, Methods, Calculation

Goal: This course gives you a proper start in your reliability engineering career. We will teach you the basic terms, methods and calculation formulas needed in reliability engineering. A special section of reliability methods in electronics is included. Brief summary on how to connect reliability and system design.

1. Introduction

- Basic terms in Reliability Engineering
- Overview on Reliability Engineering methods

2. Reliability Calculations

- Basic formulas needed most often

3. Repairable and Non-repairable systems

- Formulas for repairable system reliability calculations.
- Formulas for non-repairable system reliability calculations.
- Exercises

4. Reliability Models

- Methods and calculation
- Modeling standby systems
- Exercises

5. Reliability of Electronics

- Features, Methods and calculation
- Exercises

6. Safety System Reliability

- EN 61508 overview
- Calculations in compliance with EN 61508

7. Summary: Reliability in a Design Project

- supporting design, timing of activities