

## Accelerated Reliability Testing

The goal is to enable you to conduct accelerated reliability tests (ALT, AST/HALT) in practice. The methods with examples are presented and can be used in product design projects. Previous knowledge needed: basics of statistics. Bring a scientific calculator.

### WEBINAR: Accelerated Reliability Testing

*WELCOME and introduction*

#### **1. Introduction: Traditional Lifetime Testing and Reliability Testing Today**

- Traditional: Reliability determination tests and Reliability development tests (accelerated tests). Problems with traditional reliability testing

#### **2. Reliability Management: Role of Testing**

- Managing product reliability
- Reliability methods supporting the tests: Risk Analysis and FMECA
- Scheduling of testing in product development

#### **3. Methods of Accelerated Life Testing (ALT)**

- Test time compression with elevated stresses
- Failure models and failure distributions, lifetime determination

*LUNCH*

#### **4. Techniques of Accelerated Stress Testing (AST)**

- Elevated stresses in revealing product weak links
- Failure mechanisms as sources of failure modes

#### **5. Implementation of AST**

- Effective approaches to stress testing
- Failure analyses, failure database and Lessons Learned

*CONCLUSIONS, discussion*

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**Price:** eur/ team. Included: Course materials in pdf.

Cancellation latest 1 week before. After that 50 % fee is charged, if the cancellation is not made, the whole fee will be charged.