

## Reliability Engineering Basics

The goal is to give the engineers a basic understanding of Reliability engineering techniques and practical tools to support product/ system design. Introduction to the Reliability terms, methods and concepts. Prior knowledge of basic statistical methods will be helpful. Bring a scientific calculator with you.

### WEBINAR: Reliability Engineering Basics

*WELCOME and introduction*

#### **1. Basic Terms and Concepts**

- Terms, concepts and parameters
- Reliability calculations: Failure rate,  $R(t)$ , MTBF, MTTF, MTTR

#### **2. Reliability of Systems: RAM – Reliability, Availability, Maintainability**

- RAM-analysis for Series and Parallel systems
- Repairable and Non-repairable systems

*LUNCH*

#### **3. Reliability and Risk Analysis methods**

- Overview of the most widely used analysis methods

#### **4. Reliability of Electronics**

- Failure modes of electrical components
- MTBF calculation tools: FIDES, Parts count and MIL-217 methods
- Basics of Reliability Testing

#### **5. Reliability Management**

- Reliability Engineering activities and timing in Product Development

*CONCLUSIONS, discussion*

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**Price:** eur/ team. Included: 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.