

# Safety and reliability of electrical / electronic and programmable systems

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## Seminar-No. 03.07



Online-Seminar\*

### DATES & COSTS

08.-09.06.2022

Nuremberg

Length:

2 Days

Fee:

1.400,00 €

incl. lunch and certificate of participation  
plus VAT

\* On-demand

### TARGET GROUP

- Technical project manager
- HW Development, E-Engineering,
- Approval department staff
- Safety authority staff

### LANGUAGES



### DESCRIPTION

This seminar will provide an overview regarding which techniques and measures form the basis for safety-relevant E/E/PE systems according to EN 50129, EN 61508 or SIRF.

In addition, you will have an overview of which options you can consider in order to obtain trustworthy reliability values for subsystems, components or parts

#### The following points are covered:

##### Safety-relevant E/E/PES

- Fundamentals
- Techniques and measures
- Standards-compliant development
- Standards-compliant verification before an assessor

##### Reliable E/E/PES

- Fundamentals (terms of reliability, correlations of reliability variables, How to deal with the requirements to the requirements (subsystem, component or part))
- Reliability analysis
- Reliability prediction
- Procedure if analysis and predictive analysis are not possible

### SEMINAR CONTENTS

#### DAY 1 09.30-17.00

- Fundamentals EN 50129, EN 61508 and SIRF
- HW quality assurance, methodology
- Hardware safety
- Requirements management

#### DAY 2 09.00-17.00

- Basics of the reliability of safety-relevant hardware
- Predictive methods for E/E/PES systems
- Analysis methods for E/E/PES systems
- Further procedure for the proof of reliability