

Development of safety related Hardware acc. to IEC 61508, EN ISO 13849-1 and IEC 62061

Workshop on the development of hardware in safety technology.

 Seminar	 2 Termine verfügbar	 Teilnahmebescheinigung
 Präsenz / Virtual Classroom	 8 Unterrichtseinheiten	 Online durchführbar

Seminarnummer: 07278

Stand: 02.02.2026. Alle aktuellen Informationen finden Sie unter <https://akademie.tuv.com/s/07278>

This workshop introduces the normative requirements for developing hardware in safety engineering. It covers structural requirements and provides practical examples to illustrate the implementation of error control measures. All critical aspects that must be considered in hardware design to meet functional safety requirements are addressed. The focus is on achieving SIL 3 compliance according to IEC 61508 and IEC 62061, as well as Category 4 compliance according to EN ISO 13849-1. Participants will learn how to apply these requirements effectively in practice.

Nutzen

- You will gain a thorough understanding of the normative requirements for developing hardware in safety technology.
- You will be able to evaluate and implement effective error control measures.

Zielgruppe

This workshop is designed for hardware developers, project managers, and executives responsible for product development and the implementation of safety-related systems.

Voraussetzungen

Basic knowledge of IEC 61508, EN ISO 13849-1 and their application in the development of safety-related

products.

Inhalte des Seminars

- Normative principles of functional safety: IEC61508, IEC62061, EN ISO13849-1
- Safety-related structures and normative requirements in accordance with IEC61508, IEC62061, EN ISO13849-1
- Dealing with fault exclusions
- Presentation of various diagnostic techniques for digital inputs, digital semiconductor outputs, analogue inputs, reset circuits, microcontrollers and power supplies
- Practical examples
- Independent assessment of circuits

Terminübersicht und Buchung

Buchen Sie Ihren Wunschtermin jetzt direkt online unter <https://akademie.tuv.com/s/07278> und profitieren Sie von diesen Vorteilen:

- Schneller Buchungsvorgang
- Persönliches Kundenkonto
- Gleichzeitige Buchung für mehrere Teilnehmer:innen

Alternativ können Sie das Bestellformular verwenden, um via Fax oder E-Mail zu bestellen.