

# DE0104 How to apply IEC61508 for mechanical devices

## Who should attend?

- ◆ Mechanical Engineers
- ◆ Safety Managers dealing with mechanical products
- ◆ Mechanical Quality Responsible

### Duration:

1 day (or in-house, jointly agreed, please contact us for more information)

### Language:

Can be chosen between German or English, training material will be in English

### Location:

*exida.com* GmbH office  
Prof.-Messerschmitt-Straße 1  
D-85579 Neubiberg / Germany

### Certificate:

Each participant gets a letter of attendance.

For more information, please contact:

Kerstin Tietel

☎ +49 89 44118232

✉ [kerstin.tietel@exida.com](mailto:kerstin.tietel@exida.com)

# DE0104 How to apply IEC61508 for mechanical devices

## Agenda and Content

- ◆ Functional Safety in general and relevant standards
- ◆ Why Functional Safety for mechanical parts?
- ◆ Mechanical parts according to ISO 13849-1
  - High demand mode versus low demand mode
- ◆ What is required to achieve a certain Safety Integrity Level (SIL)?
  - SIL<sub>PFD</sub>
  - SIL<sub>AC</sub>
  - SIL<sub>CAP</sub>
- ◆ Final Elements in the context of an entire safety function
  - Impact of proof testing
  - Proof Test Coverage (PTC)
  - Partial Stroke Testing (PST)
  - Route 1H versus 2H

