

## STANDARDS FOR FUNCTIONAL SAFETY RELATED SYSTEMS

IEC 61508 (functional safety of electrical/electronic/programmable electronic safety-related systems) is an international standard applicable across all kinds of industries.

ISO 26262, which is a standard for functional safety of electrical & electronic components in road vehicles up to 3500 kg, is derived from this standard. We created Mentor Safe with one overarching goal: Enabling ISO 26262. Mentor Safe ensures that our entire portfolio of automotive tools and products are suitable for use in ISO 26262 SoC, hardware, software and system design. We provide a broad array of ISO 26262 documentation and tool qualification, with third-party certification for selected products.

Besides ISO26262 a number of other industry and application specific standards are derived from the basic standard IEC 61508:

### ISO 25119

Tractors and machinery  
für agriculture and  
forestry

### IEC 61513

Nuclear power plants

### IEC 61800

Adjustable speed  
electrical power drive  
systems

### EN 5012x

Railway applications

### IEC 61508

Functional safety of  
electrical/electronic/  
programmable  
Electronic safety-  
related system

### IEC 62061

Safety of machinery

### IEC 60601

Medical  
electrical equipment

### IEC 61800

Furnances and ancillary  
equipment

### ISO 26262

Road vehicles

### IEC 62304

Medical  
device software

### IEC 61511

Process industries

# Siemens EDAs solution to reach functional safety

