

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

