



In the pursuit of delivering higher output, functional safety is imperative to protect people, property and/or the environment from harm automatically.

Many industries now use risk reduction processes to reduce the likelihood and/or the severity of a hazardous event.

Functional safety is one of these tools/techniques used to reduce risk and relates to machinery and industrial processes. Functional safety applied to an industrial process has a lifecycle that should be followed involving many different disciplines of engineering.

EIS are experts in functional safety, with qualifications including the industry leading TÜV Rheinland Functional Safety Engineer Certificate in Safety Instrumented Systems.

All of the processes we design follow world leading industry standards. We then prepare operational standards and procedures that ensure the safe day to day operation by your team.

Our functional safety services include:

- SIL Determination
- Safety Requirements Specification Development
- Design, Installation, Commissioning and Validation of Safety Systems
- Operational Procedure Development
- Functional Safety Management Plan Development

Our functional safety services follow standards such as:

- IEC 62061 Ed. 1.2 Safety of machinery – Functional safety of safety related electrical, electronic and programmable electronic control systems.
- IEC 61508 Ed. 2.0 Functional safety of electrical/electronic/programmable electronic safety related systems.
- IEC 61511 Ed. 1.0 Functional safety – Safety instrumented systems for the process industry sector.