



**In the pursuit of delivering higher output, manufacturing processes are becoming ever more complex, with machine size, speed and performance increasing.**

As a result, in many industries, machinery operation now poses one of the greatest risks to personnel safety.

It is therefore essential that machinery design, installation and operation is carefully planned and executed according to internationally accredited safety standards.

As well as ensuring human safety, machinery with fail-safe operations leads to less down-time and, ultimately, improved operational efficiencies.

EIS are experts in machine safety, with qualifications including the industry leading TÜV Nord Certified Machine Safety Expert. (CMSE)

All the machinery we design, and install are certified to world leading industry standards. We then prepare operational standards and procedures that ensure the safe day to day operation of the machinery by the EIS team.

We can also design, commission, and validate machine safety systems for existing or newly imported machinery, ensuring that it complies with the most stringent standards required for operation in New Zealand.

**Our machine safety services include:**

- Qualified safety assessments
- Design, installation, and commissioning of machine safety systems
- Validation of safety systems
- Machine operator training
- Machine maintenance

**Our machine safety systems are designed and installed to the following standards:**

- AS 60204. 1-2005 Safety of machinery – Electrical equipment of machines – General requirements
- AS/NZS 4024. 1-2014 Safety of machinery
- ISO 13849-1:2015 Safety of machinery – Safety related parts of control systems, Part 1: General principles for design
- ISO 13849-2:2012 Safety of machinery – Safety related parts of control systems, Part 2: Validation
- 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
- IEC/ISO 17305 Safety of machinery – Safety functions of control systems