Welcon Technologies

TECHNOLOGY DRIVEN SOLUTIONS

FUNCTIONAL & MACHINE SAFETY

Workers who operate or maintain industrial machines, undertake many tasks that present high levels of risk.

It is now mandatory to assess the Hazards and Risks on every machine in your workplace. (Qld Work Health and Safety Regulation 2011 - Managing Risk of Plant in the Workplace)

When designing, building, retrofitting, interlinking or using machines, a formal technical Risk Assessment can provide a systematic method to identify hazards. Once identified, protective measures can be developed to reduce the degree of possible harm.

Functional Safety Systems are designed for machines and incorporate specialised safety-rated devices and components to reduce hazards from machinery so that the desired level of safety for people and environment is achieved.

Welcon's Certified Machine Safety Experts (CMSE) have the necessary know-how and accreditations to assist clients with the design and implementation of Safety Systems for plant machinery. Our specialists are TÜV Accredited, and our solutions involve the practical application of relevant standards, such as IEC 60204-1, IEC 62061, ISO 12100, ISO 13849-1 & 2.

BENEFITS FOR PLANT OWNERS

- Reduced liability risk by demonstrating your compliance safety standards
- A competitive advantage through third-party certification
- Improved personnel morale through a safer workplace.

TASK & HAZARD IDENTIFICATION

A typical assessment will address the following:
- Machine guarding
- Operational functions and limits of machine
- Modes of operation
- Points of human interaction
- Tasks undertaken by operators
- Start/re-start interlock, start functions
- Emergency stops and shutdown
- Special diagnostic requirements
- Company standards
- Machine performance requirements
- Circuits and schematics

SAFETY SYSTEM DEVELOPMENT

The systematic approach used by Welcon incorporates the following steps:

1. Risk Assessment
2. Defining Functional Requirements
3. Design of System Structure
4. Equipment Selection
5. Detailed Design
6. Design Verification
7. Installation
8. Installation Verification
9. Training of client personnel
10. Ongoing Maintenance Support

INDEPENDENT EXPERTISE

Welcon Technologies is proudly vendor independent. We will recommend and implement the best solution to meet your needs, based on your specific criteria.

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