

Safety Turnkey Solutions

Systems and Services

Polytron is a CSIA-Certified leader in engineering consulting and systems integration and is 2024 System Integrator of the Year. You have made significant investments in both your people and plant assets. By applying years of machine safety engineering expertise in manufacturing, we will help you protect your assets and your productivity.

Our Safety Practice leads hold certifications in global safety competency as Functional Safety Engineer - TÜV Rheinland and Certified Machine Safety Expert - CMSE® - TUV NORD.

Benefits

Your company's safety program will most likely require the modification of existing machines to reduce the hazard and risk levels identified in your risk assessment. It is important to choose a system integrator that has both the experience and certified expertise. This allows you to realize benefits such as:

- ▶ Understanding of standards and how to effectively apply technology
- ▶ Minimize machine downtime and impacted systems with a well-developed plan
- ▶ Cost-effective changes that reduce the risk level of the equipment within the company allowable limits
- ▶ Increase equipment efficiency (in majority of cases)

Approach

Our approach to machine safety is to come alongside your team to prioritize the highest risk machines and effectively reduce hazards in your facility. We will help create a safe working environment for your people and plant assets.

- ▶ Develop new safety initiative roadmap to effectively create or improve your safety program
- ▶ Audit and assess to proactively address and identify risks and hazards
- ▶ Take action on completed Risk Assessments
- ▶ Reduce risk for workers, productivity and bottom line
- ▶ React to incidents or near misses



Related Safety Services

Polytron also offers related safety services to complement your machine safety program to improve workforce safety practices and performance.

- ▶ Lockout/Tagout
- ▶ Job Hazard Assessment
- ▶ ARC Flash Audit
- ▶ Safety Culture Training

Implementation

Scheduling the implementation of the machine safety project requires extensive coordination due to the evident downtime of the equipment. Older equipment requires considerable updating to bring into compliance and can incur as much as one day to several weeks of downtime based on the complexity of the project.

Our certified project management professionals develop the most time-efficient and cost-effective approach to your machine safety project to reduce the risk to your operational performance.

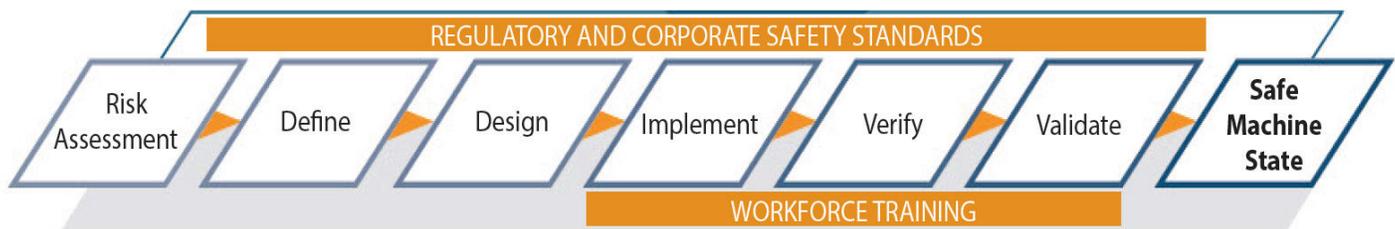
Turnkey Safety Solutions

Polytron offers turn-key safety solutions to reduce identified machine safety risks.

Our solution includes the following:

- ▶ Collaborate with your team to create the Safety Functional Design Specification
- ▶ Development of the Electrical / Controls and Mechanical safety design based upon the Safety Functional Design Specifications
- ▶ Programming modifications
- ▶ Supply of electrical and mechanical hardware and installation
- ▶ OEM management
- ▶ Onsite support for construction management, debug and system validation
- ▶ Documentation and Training for new safe machine state

With Polytron as a Machine Safety Partner, we can help you develop a Machine Safety Program for your plant floor to create a sustainable, safe work environment.



TUV Certifications

Our Safety Practice leads hold certifications in global safety competency as Functional Safety Engineer - TÜV Rheinland and Certified Machine Safety Expert - CMSE® - TÜV NORD. These certifications validate that your safety projects will be delivered with proven competency and expertise in best-in-class machine safety practices and thorough understanding of safety standards.

Areas of expertise include:

European Guidelines, Standards

- ▶ Machinery Safety Legislation
- ▶ Risk Assessment and Analysis
- ▶ ISO 13849-1: 1999 (EN 954-1) / EN ISO 13849-1: 006 / EN 62061
- ▶ Safety Devices
- ▶ Mechanical Guarding
- ▶ Electrical Safety
- ▶ Functional Safety of Control Systems
- ▶ Safety functions of Machines
- ▶ Circuits, Schematics, Examples
- ▶ New Standards Regarding Safety of Machinery
- ▶ Validation

Contact Us

Using our expert knowledge in best-practices and standards we ensure the highest degree of project success in all areas of the project.

Are you ready to take the next steps toward safety solutions?

Contact us.

