Industrial Machine Safety Resource Guide

For engineering, maintenance, and EHS managers involved with implementation of machine safety.

Rockwell Automation and North Coast can help support all of your safety needs throughout the **Safety Lifecycle**:

1. **Perform a hazard or risk assessment**
   Identify hazards and estimate the associated risk
2. **Determine the functional safety system requirements**
   Evaluate safeguarding options based on industry acceptable solutions and select mitigation techniques
3. **Design and verify system**
   Design system architecture, document safety circuit design and procure materials
4. **Install and validate system**
   Verify systems are operating within defined parameters and applicable standards have been satisfied
5. **Maintain and improve the system**
   Verify that system requirements operate within specified parameter for production and safety preventative maintenance and system upgrades

Safety Tools

Safety Automation Builder: Streamline safety system development with this free software

RASWin Risk Assessment Software: A subscription-based software tool to develop and maintain machine functional safety documentation through the safety lifecycle

Safety Maturity Index: Improve safety and productivity performance, understand how to measure and plan safety maturity, improve your value as a machine builder

Safety Return on Investment: Understand your financial return on safety investments

Safety Products

Safety: Programmable Controllers, Connection Systems, Drive, Motion Control, Presence Sensing Devices, Relays, Sensors & Switches, Guardlink™ technology

Safety Input/Output (I/O) modules: Compact 5000 I/O, Flex 5000 I/O, 1756 ControlLogix, 1732 ArmorBlock Guard I/O, 1753 GuardPLC Safety I/O, 1791 CompactBlock Guard Safety I/O, POINT Guard I/O

Safety Instrumented Systems: Scalable fault-tolerant control systems, SIL 3 for large process safety systems, packaged safety solutions, safety configured controller solutions

Industrial Security

Security Services: Field consulting services to help assess design, implement, and manage solutions

Products and Solutions: Network security, content protection, tamper detection, and access control solutions

Advisories and Support: Stay current with patch management, subscription licensing, and advisories

Safety Resources

Safebook 5: Guidance on the Principles of Machine Safety

Process Safebook 1: Functional Safety in the Process Industry

Pre-Engineered Safety Functions: Safety function performance: setup, configuration, and wiring

Guardmaster Safety Relay Wiring Examples: Application examples with Guardmaster safety relays

Guardmaster Configurable Safety Relay Wiring Examples: Application examples with Guardmaster configurable safety relays

Palletizer Machines Safety Example: An application guide to a safer machine

Interactive Smart Safety Brochure: Smart safety products and concepts overview - standard brochure also available

Machine Safety Standards: Overview poster of machine safety standards

Legislation and Standards: Advice and guidance on Legislative Compliance and Standards worldwide

Safety Accelerator Toolkit: Resource manual on installation, configuration, and operation

Controller Systems Safety Reference Manual: Overview of GuardLogix controllers, components, and certifications

Safety Services

Hazardous Energy Control Services: Lockout/tagout and hazardous energy control

Electrical Safety Services: Arc flash analysis services

Machine Safety Services: Implement industrial safety standards, safety assessments, validation, integration, start-up, and consulting

TÜV Certified Training: Authorized TÜV Rheinland Certification Provider

Authorized Distributor
A ROCKWELL AUTOMATION PARTNER

For more information call our Automation Solutions support center at: 877-340-8920 or visit us online at: www.northcoast.com

North Coast
A Sonepar Company