

LISTEN.  
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SOLVE.™

# MACHINE SAFETY SERVICES

## Improve Manufacturing Productivity and Efficiency

### Safety is Good Business

In light of recently developed global safety standards and technologies, manufacturing safety is emerging as a powerful tool that combines workplace safety with long sought after production capacity improvements. These innovative safety strategies and technologies not only reduce injuries; they provide significant improvements in manufacturing productivity and efficiency through improved machine uptime. Around the globe, manufacturing leaders are beginning to realize – **“Safety is Good Business!”**

There’s always the ongoing need to determine the current risk level for what is in place today, for the design of one machine or an entire plant floor. But many companies don’t know where to start.

Rockwell Automation Machine Safety Consultants can assist end users, integrators and OEM’s at any step of a safeguarding project from training, standards assistance, to risk and hazard assessments, circuit evaluations, system architecture development, system and hard guarding design, through validation and startup.

*Rockwell Automation Machine Safety Consultants can assist you at any step of a safeguarding project.*



### Increase Machine Uptime

With Rockwell Automation Machine Safety services you can:

- Improve the overall guarding performance on new and existing lines to:
  - Reduce risk to personnel during production and maintenance tasks
  - Improve diagnostics to reduce down time
- Optimize the guarding design to reduce Mean Time to Repair (MTTR)
- Improve manufacturing productivity by selecting from a wide range Machine Safety components and architectures
- Integrate Standard and Safety controls on a common platform, reducing time to market

# ROCKWELL AUTOMATION SAFETY SERVICES

*Your Safety Resource for any aspect of your Machine Risk Reduction initiative.*

## Hazard Assessment

A Rockwell Machine Safety Consultant will evaluate the equipment, identify guarding deficiencies and recommend machine guarding solutions that are compliant with current Safety Standards and designed to meet production and maintenance needs. Included in the hazard assessment is a recommended bill of materials and approximate hard guard dimensions.

## Risk Assessment

Rockwell Automation can lead your team through the globally recognized risk assessment process and offer guidance on a wide range of risk reduction techniques that encompass process redesign, guarding, awareness means, training and administrative requirements and personal protection equipment. Rockwell Automation will provide the completed documentation.

## Safety Circuit Analysis

Rockwell Automation will verify the safety circuit design per the applicable standards specified by the customer. The standards may include EN-954 Category B,1,2,3, or 4, ANSI B11.TR3 Control Reliable, Single Channel w/ monitoring, Single Channel, etc., or other standards. This service provides a documented review of the safety circuit and a letter of compliance.

## Safety Systems and Integration Services

Rockwell Automation Machine Safety Consultants work closely with Rockwell Automation's MPS design and integration team to provide safety systems controls, integration, and startup services. Rockwell can be a turnkey provider of safety solutions encompassing the widest selection of machine safety components and services on the market.

## Safety System Validation

Safety System Validation is a service for developing the validation protocol and performing the validation to document that the safety system is installed and functioning properly. This is a key step in any safeguarding project. The protocol can be used to revalidate the system if any changes or repairs are made to the system throughout the life cycle.

## Production Floor Safety System Support

When support is required for production floor component troubleshooting, Rockwell Automation field engineers are trained to quickly diagnose the issues relating the system problems and can even assist in safety plc trouble shooting and programming.

## Component Training

Rockwell Automation safety consultants are experts at providing training for trouble shooting, Safety Component application and Safety and Standard PLC programming. Training and application confidence will help the customer support production floor systems.

## Custom Training

Machine Safety Training can cover any topic relating to machine safety and circuit design and can be customized based on your requirements. Training can encompass ANSI, NFPA, OSHA, EN, CSA, ISO, & IEC safety standards, Risk Assessment, Hazard Assessment and Safety System Validation.

## Machine Safety Seminar

Machine safety seminars are typically hosted by a distributor or Rockwell Office and available for resale. Eight hour seminar covering the elements of a successful machine safety program, OSHA requirement, Standards (ANSI, NFPA, ASME, OSHA) requirements and application examples when applying safety components covering electrical design and function of Control Reliable and EN-954 Category circuits, hard guarding design, Risk Assessment training and a Risk Assessment workshop.

[www.rockwellautomation.com](http://www.rockwellautomation.com)

### Power, Control and Information Solutions

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe/Middle East/Africa: Rockwell Automation SA/NV, Vorstlaan/Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846