

# Rockwell Automation Scalable Assessment Solutions

## Conformity Audit/Machine Review

The conformity audit is a quick audit that is used to identify conforming and non-conforming machines in an efficient and cost effective manner. The Conformity Audit includes the following items:

**Guarding:** Verify and document if guarding exists, if the height, reach over/under/through/around requirements are met, and that penetration distances meet applicable standards. We verify if existing guarding meets requirements for mounting and removal (requires tool, interlocks, etc.). We also verify that all movable guards have interlocks and that the interlock devices already in place are adequate.

**Lock-out/Tag-out (LOTO):** Verify and document if the machine has the proper LOTO devices and the capability to isolate all energy sources in accordance with applicable standards (such as disconnect switches, lockable ball valves, etc.). We also verify if there are available procedures and hardware to complete the LOTO process.

**Emergency-Stop:** Verify and document if there are E-stop devices and that they are in adequate locations for operator use. We verify that the existing E-stop devices meet current standards for color and type (red mushroom operator, yellow background, maintained position) and are readily accessible.

**Safety Circuit:** Estimate and document if the existing safety circuits meet or exceed a Category 3 rating. Please note that the level of conformance will be an estimate based on the functional safe guarding and apparent machine operation. A full Machine assessment is required to determine the appropriate functional safety requirements and design requirements.

All non-conforming machines will require assessments to determine the correct type of safeguarding that is required to bring the machine(s) to a conforming status.

## Hazard/Guarding Assessment

Hazard and guarding assessments are a quick and inexpensive way to assess a simple machine to determine the obvious points of operation, interaction, and the hazards that exist. The result of the hazard assessment is a concise report that identifies the location of each observed hazard and a possible mitigation technique. Hazard assessments can help your organization in a number of ways, including:

- They can provide general recommendations on how to guard a simple machine
- They are a cost effective way to prioritize a machine safeguarding project for simple machines
- They are a cost effective way to determine the required system performance that is required for simple machines

## Safety Evaluation

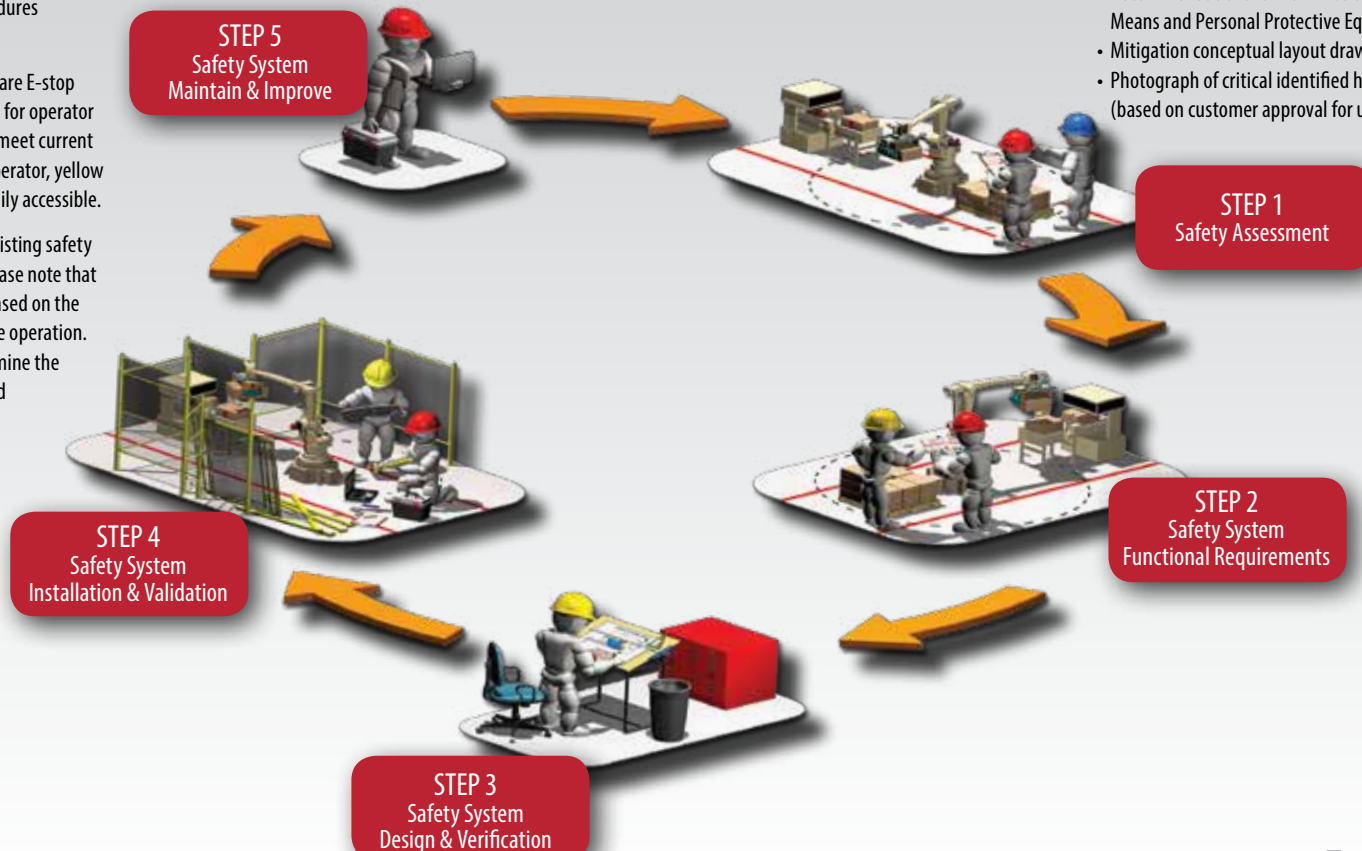
Safety Evaluations are a deeper dive into machine and user activities for semi-complex and mid-sized machines. A Rockwell Automation Safety Consultant will work with operators and maintenance personnel on site to discuss the primary operation tasks, functions, and hazards for each machine. Working with your personnel, we will develop the estimated risk rating, possible mitigation strategies, and the possible residual rating if the mitigation technique is implemented properly. Safety Evaluation reports include:

- Identification of primary hazards/tasks
- List of non-compliance issues
- Risk In/Risk Out Rating (Initial/Residual Risks)
- Mitigation Guarding and Controls recommendations
- Photograph of critical identified hazards (based on customer approval for use of photos)

## Team Based Risk Assessments

The most comprehensive assessment we offer, this one uses a team based approach. The Team Based Risk assessment can be applied to machine sizes including large and complex machines/lines. A Rockwell Automation Safety Consultant will work with a cross-functional customer team at your site to discuss tasks, functions, and hazards for each machine/line included in the assessment. The Rockwell Automation Safety Consultant will work with your team to develop the estimated Risk Rating, possible mitigation strategies, and the possible residual rating if the mitigation technique is implemented properly. Team Based Risk Assessment reports include:

- Identification of primary hazards/tasks
- List of non-compliance issues
- Risk In/Risk Out Rating (Initial/Residual Risks)
- Mitigation Guarding and Controls recommendations
- Recommendations for Administrative, Training, Awareness Means and Personal Protective Equipment.
- Mitigation conceptual layout drawings
- Photograph of critical identified hazards (based on customer approval for use of photos)



LISTEN.  
THINK.  
SOLVE.

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Conformity Audits/Machine Review	Hazard/Guarding Assessment	Safety Assessment/ Evaluation	Team-Based Risk Assessment
Multiple machines/ plant wide machine Assessment	Identifies primary hazards	Assessment/evaluation of multiple machines, multiple sites	Detailed risk assessment
Provides a scalable solution to help control costs	Identifies hazard and guarding recommendations for immediate plant actions	Provides report including remediation recommendations (Most common scalable assessment solution)	In-depth, team based analysis for risk identification and risk reduction utilizing machine redesign, mechanical and functional guarding, training and administration, awareness means and PPE
Provides a completed check list that shows compliance or non-compliance of pre-defined attributes relating to the machine safety. The list can be sorted to prioritize next steps.	Generates report identifying: <ul style="list-style-type: none"> <li>- Guarding hazard(s)</li> <li>- Overall machine risk rating (initial risk rating)</li> <li>- Guarding deficiencies</li> <li>- Recommended guarding solutions</li> </ul>	Generates report identifying: <ul style="list-style-type: none"> <li>- Identification of primary hazards/tasks</li> <li>- Risk in/risk out rating</li> <li>- Mitigation guarding and controls recommendations</li> <li>- Recommendations for safety improvements</li> <li>- Photograph of critical identified hazards</li> </ul>	Consult for all machine life phases – start up, normal / abnormal operation, set up, maintenance, product changeover, machine jog, etc.

SRFS is an optional service not included in the assessment itself

