

## Safety Skill Builder

Machine and Process Safety Education, Assessment and Risk Identification, Engineering and Design, Integration, and Implementation



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- » Has a documented machine guarding assessment been done to verify compliance?
- » Have all steps been taken to prevent injuries from process equipment?

# Safety Skill Builder Workshop

Machine and Process Safety Education, Assessment and Risk Identification, Engineering and Design, Integration, and Implementation..

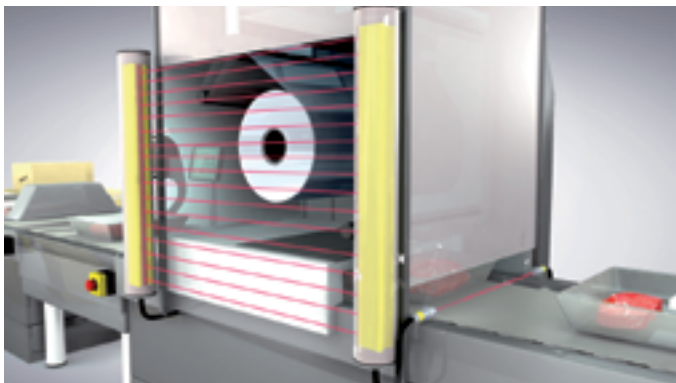
## All From a Single Source.

Omron offers the following suite of services to help companies achieve their machine safeguarding goals.

**Education** — Provide your employees with an understanding of machine and process safeguarding basics using our 2-day Safety Skill Builder Workshop.

**Assessment and Risk Identification** — Build a foundation for a safer, more productive manufacturing operation. Know the hazards presented by your equipment and processes through our unique, standards-based assessment process. Quantify the risks and how to mitigate them. Omron can supply the plan.

**Engineering and Design** — Proper safety circuit design and product selection are an important part of creating a safe and productive manufacturing floor. With the resources of one of



the world's leading industrial automation and safety companies, Omron is uniquely qualified to help.

**Integration and Implementation** — Having options is important. With Omron you choose how much or how little of our support you'd like. From just a Safety Skill Builder Workshop to get you started and expand your knowledge base, to a complete, turnkey package that brings it all together – including operator training – no job is too large for us.

There's more to safety than simply installing a guard or safety light curtain. Properly executed, safety pays big dividends.

Please call us with any questions or comments. We welcome the opportunity to partner with you for a safer, more productive, and profitable future.

## The Cost of Safety

Estimating the financial costs in advance of an injury is difficult. Fortunately, OSHA's interactive *Safety Pays* website offers assistance.

Using insurance company claims data, the tool calculates the estimated direct and indirect costs of an injury. Also, if you enter your profit margin information, *Safety Pays* will project the additional sales required to recover the costs of the injury.

Consider a simple example: Assume that a company has annual sales of \$10 million with an 8% pre-tax profit margin. For a single accident resulting in an amputation, *Safety Pays* estimates the costs of the injury as follows:

Average Direct Cost:	\$21,718
Average Indirect Cost:	\$23,890
Estimated Total Cost:	\$45,608

The additional sales revenue necessary to cover these costs are:

<b>Total Cost:</b>	<b>\$570,100</b>
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In other words, the next 5.7% of sales growth will go solely to pay for the total cost of the accident. If your pre-tax margins are less, the sales impact is even greater.

## Indirect costs account for the majority of accident expenses but are not typically covered by insurance.

One final note - the answers returned by *Safety Pays* may be conservative with regard to the ratio of indirect-to-direct costs which is almost 1:1. A poll by Liberty Mutual Group estimates the actual figure may be 5:1 while an American Society of Safety Engineers study suggests a ratio of 8:1.

## Who thinks investing in safety equipment and programs impacts the bottom line?

- 61% of executives claim that for every dollar spent on investments in workplace safety \$3 are saved (according to a poll by the Liberty Mutual Group).
- 95% of the executives in the poll indicate workplace safety has a positive impact on a company's financial performance.
- OSHA's Office of Regulatory Affairs reports an even more dramatic result; suggesting \$4 to \$6 are saved for every \$1 invested.

- Are you confident your machines are guarded to the relevant standards?
- Have all steps been taken to prevent injuries from process equipment?
- Has a documented machine guarding assessment been done to verify compliance?

If you're not sure, or the answer is no to any of these questions, then your facility can benefit from a Safety Skill Builder Workshop.

## What is a Skill Builder?

Skill Builders are 2-day training seminars that educate your personnel on the requirements and methods of machine and process safeguarding. This helps plant personnel to identify, and sometimes correct, machine safeguarding discrepancies. Two Omron professionals will conduct the training at your manufacturing plant.

### Who Should Attend?

- EH&S Personnel
- Plant Maintenance
- Plant Engineering
- Production Managers
- All Managers concerned with the safety of plant personnel

The Safety Skill Builder Workshop has the most impact when the corporate EH&S Manager along with the plant-level safety people meet at one plant location. Classes are small with no more than 20 in attendance.



### How Do They Benefit?

Attendees will walk away with a greater understanding of methods for machine safeguarding and the correct applications of guarding devices.

Your plant personnel are trained on:

- Identifying machine hazards
- Machine hazard risk assessment
- Machine guarding techniques and the latest safeguarding technologies
- Machine guarding requirements as set by regulatory and consensus standards
- Safety circuit design requirements based on risk level
- Practical application

# Making Safety Simple

## Is it Practical?

After the Skill Builder Workshop is complete, the group goes to the plant floor to participate in a Machine Guarding Inspection. The purpose of this inspection is to raise awareness of obvious guarding shortcomings so that you can act to prevent injuries to personnel. Attendees will apply skills learned by working side-by-side with a machine guarding specialist to evaluate several machines and their current guarding. Many of these discrepancies may be corrected by plant maintenance personnel; however, some may require additional expertise. After the evaluation, there is a group discussion for a better understanding of the findings. After that, the only thing we ask is that you commit to correcting your safeguarding discrepancies.



## Six Steps to a Safe Plant

The proven process for successfully safeguarding a plant is as follows:

1. Educate responsible corporate and plant level personnel through the Safety Skill Builder Workshop on machine guarding,
2. Conduct a plant machine guarding evaluation to identify obvious concerns or imminent danger to employees,
3. Conduct a risk level assessment and create a risk reduction plan,
4. Implement the risk reduction plan,
5. Train operators and maintenance personnel on the care and use of the new safeguarding systems, and
6. Periodic machine safety audits to ensure safe mounting distances and proper application of safeguards that may have changed due to a change in the process or the machine's uses.

Visit [www.omron-ap.com/mse](http://www.omron-ap.com/mse) to find out more.

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