



# Machine Safeguarding Seminars

- Understand how to safeguard your machines to meet standards and best safety practices.*
- Learn what OSHA looks for during inspections.*
- Determine the best types of safeguards for your applications and production requirements. Risk Assessment: How the level of hazard determines the safeguarding and much more!*

## Quotes from Past Participants

- *The seminar has a lot of information on the safety of presses. Anyone with a press operation needs to attend*
- *It was what I expected*
  - *very informative*
- *Instructors are very knowledgeable*
- *I thoroughly enjoyed the seminar and picked up a lot of very valuable information*
- *Excellent presentation*
- *Best training I've had in years*
- *The hands-on experience was great*
- *This seminar is, perhaps, the most comprehensive coverage that I have heard on this subject. The course is a "must" for anyone involved in machinery guarding or operational set-up*

## ROCKFORD SYSTEMS' QUALIFICATIONS

For many years Rockford Systems has been educating corporations throughout the world on machine safeguarding. Every year, hundreds of people attend these seminars. Participants come from a variety of areas including manufacturing, distribution, aerospace, insurance, government, and consulting. They include safety directors, plant managers, maintenance and engineering personnel, setup people, safety specialists, loss-control engineers, and safety consultants. Seminar instructors are very knowledgeable and have many years of experience in the machine tool industry.

## MACHINE SAFEGUARDING SEMINAR OVERVIEW

According to safety standards, when a machine creates a hazard to operators and other employees in the machine area, it must be safeguarded. Rockford Systems offers a machine safeguarding seminar to teach people in positions of responsibility how to safeguard the point of operation and other machine hazards to meet these safety standards.

This 2½-day seminar explains how to interpret the performance language of both OSHA (Occupational Safety and Health Administration) and ANSI (American National Standards Institute) standards. Specific machine safeguarding situations are also discussed. Another section of the machine safeguarding seminar provides basic safeguarding guidelines for other metalworking machines using the ANSI B11-series safety standards.

Seminars combine classroom discussion with demonstrations of machines under power. Hands-on experience with these machines and visual aids, including slides and videos, are also used. These teaching methods enable the participants to interpret the OSHA and ANSI standards as they relate to their specific machine applications and production requirements.

## DAY-TO-DAY OUTLINE OF SAFEGUARDING SEMINAR

### Day 1 8:00 a.m. to 5:00 p.m.

- Welcome, Introduction, and Objectives of Seminar
- Brief History of ANSI, OSHA, and NFPA-79
- Risk Reduction
- OSHA 29 CFR 1910.211, Definitions
- OSHA 29 CFR 1910.212, General Requirements for All Machines and Auxiliary Equipment
- OSHA 29 CFR 1910.217 Mechanical Power Presses
- ANSI B11.1-2009 Mechanical Power Presses
- Full-Revolution-Clutch Identification and Control Requirements
- Part-Revolution-Clutch Identification and Control Requirements
- Control Reliability and Brake Monitoring
- Electrical Component Requirements (NFPA-79)
- Hand-Feeding Tools
- Point-Of-Operation Safeguarding—Guards, Devices, Methods
- Design, Construction, Setting, and Feeding of Dies
- Inspection and Maintenance Records
- Instruction to Operators
- Reports of Injuries
- Mechanical Power-Transmission Apparatus (OSHA 1910.219)

### Day 2 8:00 a.m. to 5:00 p.m.

- ANSI B11.2 Hydraulic Power Presses
- ANSI B11.3 Power Press Brakes
- ANSI B11.4 Shears
- ANSI B11.5 Iron Workers
- ANSI B11.6 Lathes (Manually Operated)
- ANSI B11.7 Cold Header and Cold Formers
- ANSI B11.8 Drilling, Milling, and Boring Machines
- ANSI B11.9 Grinding Machines
- ANSI B11.10 Metal Sawing Machines
- ANSI B11.11 Gear Cutting Machines
- ANSI B11.12 Roll Forming and Roll Bending Machines
- ANSI B11.13 Automatic Screw/Bar and Chucking Machines
- ANSI B11.14 Coil Slitting Machines/Systems Withdrawn—See ANSI B11.18
- ANSI B11.15 Pipe, Tube, and Shape Bending Machines
- ANSI B11.16 Metal Powder Compacting Presses
- ANSI B11.17 Horizontal Hydraulic Extrusion Presses
- ANSI B11.18 Coil Processing Systems
- ANSI B11.19 Safeguarding Methods (Criteria)
- ANSI B11.20 Integrated Manufacturing (Cells)
- ANSI B11.21 Machine Tools Using Laser Processing (Cutting)
- ANSI B11.22 CNC Turning Centers and Lathes
- ANSI B11.23 Machining Centers—CNC Mills, Drills, Boring
- ANSI B11.24 Transfer Machines
- ANSI/SPI B151.1 Horizontal (Plastic Injection Molding Machines)

### Day 2 (Continued)

- BS ISO 14137 and JIS B6360 Electrical Discharge (EDM) Machines
- ANSI B152.1 Hydraulic Die Casting Presses
- ANSI/RIA R15.06–1999 & 2012 Robots and Large Work Envelopes
- OSHA 1910.147 Control of Hazardous Energy Lockout/Tagout

### Day 3 8:00 a.m. to 10:00 a.m.

- Machine Demonstrations

## SEMINAR MATERIALS

Each person attending this seminar receives a variety of information regarding machine safeguarding which includes reprints of the following:

- OSHA 29 CFR 1910.211, 1910.212, 1910.217, and 1910.219
- Charts and graphs for future reference
- Safeguarding product catalogs
- U.S. Department of Labor memorandums
- Mechanical Power Press Safety Information Card
- Safety Distance Guide Slide Chart
- Folding, Acrylic Copolymer OSHA and ANSI Guard-Opening Scales
- Laminated function-testing checklists for safeguards

# SEMINAR REGISTRATION FORM



2½-Day "Machine Safeguarding" Seminar

Registration for the dates of \_\_\_\_\_

Company Name \_\_\_\_\_

Address Line 1 \_\_\_\_\_

Address Line 2 \_\_\_\_\_

City \_\_\_\_\_ State/Province/Region \_\_\_\_\_ ZIP/Postal Code \_\_\_\_\_

Phone \_\_\_\_\_ Ext. \_\_\_\_\_ Fax \_\_\_\_\_

E-Mail Address \_\_\_\_\_

Registrants:

Name \_\_\_\_\_ Title/Position \_\_\_\_\_ T-Shirt Size \_\_\_\_\_

Name \_\_\_\_\_ Title/Position \_\_\_\_\_ T-Shirt Size \_\_\_\_\_

Name \_\_\_\_\_ Title/Position \_\_\_\_\_ T-Shirt Size \_\_\_\_\_

Name/Title of person making registration \_\_\_\_\_ Phone \_\_\_\_\_

## Payment Options—Fees are payable in advance using any of the following forms of payment:

Check enclosed payable to Rockford Systems, LLC Check amount \_\_\_\_\_

Invoice company Purchase Order No. \_\_\_\_\_ Attn: \_\_\_\_\_

Billing Address:

Bringing check to seminar.

Bringing credit card to seminar. Charge to:  American Express  Visa  MasterCard

Card No. \_\_\_\_\_ Exp. Date \_\_\_\_\_

Cardholder's Name \_\_\_\_\_ Signature \_\_\_\_\_

**Enrollments are limited** and are taken on a first-come, first-served basis. Maximum class size is 24 people. Please call, mail, e-mail, or fax us to make your reservation.

**By Phone:** Call toll-free **1-800-922-7533**

**By Mail:** Complete and mail the above form to:

**Seminar Registrar**  
**Rockford Systems, LLC**  
**5795 Logistics Parkway**  
**Rockford, IL 61109**

**By E-mail:** Complete and send form at our Web site

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

**By Fax:** Send copy of completed form to:

**815-874-7890**

**Substitutions** may be made at any time. Please notify seminar registrar with any changes.

**On-Site Custom Seminars:** We can present a shorter version of this seminar at your company. Please call us for details.



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