

Topic Areas & Learning Objectives

Standards and Regulations:

- o History of Occupational Safety & Health Administration (OHSA)
- o National and state level OSHA
- o History of American National Standards Institute (ANSI)
- o Identify how the two are related

> Risk Assessment:

(FMA)

Certificate

Course

- o Job Hazard Analysis (OSHA)
- o Objectives of ANSI B11.0 & B11.TR3
- Apply learned concepts to case studies & actual practice in the field

B11.3 Overview:

- Standard organization and effective dates ο
- Scope and definitions ο
- General requirements ο
- Control reliability ο

> Individual Responsibilities:

- Supplier responsibilities ο
 - Design and construction
 - Specific requirements for mechanical brakes (including Servo driven brakes)
 - Specific requirements for hydraulic brakes
 - Specific requirements for pneumatic brakes

- o Modifier Responsibilities
 - Reconstruction and modification 0
- Personnel Responsibilities 0
- User Responsibilities ο

> Installation, Set-up and Maintenance:

- ο Layout, installation, testing and start-up
- Set-up requirements ο
 - Written user plan
- Maintenance ο
 - Maintenance Procedures 0
 - Lock-out Tag-out
- o Set-up and Operation Requirements
 - Die set-up and operation (written SOP)
 - **Backgauge operations** 0
 - Standard operating procedures 0
 - Supervision 0

Press Brake Operation, Application and Uses:

- Machine types & uses 0
- **Tooling variants** 0

Training and Control Reliability:

- **Control Reliability** 0
- Safeguarding of the rear of the machine 0
- Safeguarding the backgauge 0
- General elements and guidelines for training 0
- Maintenance training 0



> Definitions of Press Brake Safeguarding:

- o Risk assessment
- Correct holding of material
- o ¼" stroke safeguarding
- Safe distance safeguarding
- o Safe speed safeguarding
- Engineered methods safety devices

> Applications of Press Brake Safeguarding:

- o ¼" stroke safeguarding
- o Safe distance safeguarding
- Safe speed safeguarding
- Pull-backs and restraints
- Two hand control devices
- Light curtains (presence sensing devices) for mechanical brakes
- Light curtains for hydraulic brakes
- Close proximity point of operation (AOPD) safeguarding (laser devices)

> Appropriate usage:

- Machine considerations
- Operator considerations
- Compliance considerations
- Identify best practices in case studies