

## **Press Maintenance & Safety In-Plant Training Agenda (Sample)**

### **Two-Day Training Program**

#### **Day 1 - Morning Session (3-1/2 hours)**

##### **Introduction(s)**

##### **Press Type & Construction**

- Theory of the Box
- Frame Design
- Shaft Design
- Drive Systems
- Rating Point

##### **Slide Guiding Systems**

- Gib Designs
- Gib Clearance Calculations
- Slide Adjusting Mechanism

##### **Press Drive Systems**

- Clutch & Flywheel
- Servo Motor
- Direct Drive
- Single Gear, Double Gear, Triple Gear Drive

##### **Clutch & Brake Fundamentals**

- Clutch Types
- Clutch Designs
- Air Pressure Settings
- Adjustments

##### **Ram (Slide) Parallelism**

- OBI / Gap Frame Presses
- Straight Side Presses
- Parallelism Tolerance
- Parallelism Adjustments
- Sources of Parallelism Problems

## **Press Maintenance & Safety In-Plant Training Agenda (Sample)**

### **Two-Day Training Program**

#### **Day 1 - Afternoon Session (3-hours)**

##### **Press Protection**

- Hydraulic Overloads
- Tonnage Monitors
- Reverse Loads
- Deflection Issues

##### **Die Setting Practices**

- Shut Height Adjustments
- Parallels
- Ram Tipping
- Proper Press Loading

##### **Press Bed Leveling**

- Dynamic and Static Loads
- Adjustable Press Mounting Devices

##### **Counterbalance Cylinders**

- Purpose
- Maintenance
- Safety Concerns

##### **Maintenance Checks**

- Daily Items
- Weekly Items
- Semi-Annual and Annual Items

##### **Press Room Safety**

- Lockout Tagout (LOTO)
- Die Safety Blocks
- Proper Coil Handling
- Proper Coil Installation
- OSHA Compliance

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### **Two-Day Training Program**

#### **Day 2 – Complete Metal Stamping Press Inspection (Hands-On Training)**

- Application of principles learned in the classroom
- Maintenance personnel (10 participants max), perform a complete metal stamping press inspection
- Using complete inspection format, examine each system on the press and record the important data
- Work with each of the participants so that they individually perform the physical measurements and inspection checks
- Participants fill out the inspection report(s) and then return to the classroom to analyze the results and write maintenance recommendations

Note: Client would need to provide tools, hand tools, jacks, dial indicators with magnetic bases.