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

PMA in-plant training programs are fully customizable. Subjects in this agenda can be removed, replaced or additional topics added from other PMA in-plant training programs.
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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Press Maintenance & Safety
In-Plant Training Agenda (Sample)

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.

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