

Press Technician/Operator In-Plant Training Agenda (Sample)

*This agenda is based on training two shifts - or two cohorts - per day
(3 hours of training per shift/cohort)*

DAY 1 (3-hours)

Introduction(s)

Press Construction/Press Nomenclature

- Gap Frame Construction
- Straight Side Construction
- Press Nomenclature (Bed, Ram, Uprights, Tie Rods, Bolster, Pitman)
- TDC/BDC
- Drive Systems: Mechanical/Flywheel Drive
- Servo Technology

Press Force and Energy

- Forward Tonnage
- Reverse Tonnage (Blanking Operations)
- Tonnage Monitors
- Press Energy (Deep Drawing Operations)
- Counterbalance Pressure

Press Specifications

- Capacity – Tonnage
- Shut Height
- Stroke Length
- Slide (Ram) Adjustment
- Strokes-Per-Minute (SPM)

Press Controls

- Main Motor ON/OFF
- Press Speed (SPM)
- Slide Adjustment
- Mode Selector
- Multiple Operator Mode(s)

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.

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DAY 2 (3-hours)

Operator Controls

- Foot Switches/Run Bars
- Top Stop/E-Stop
- Prior Action (Auto/Auto Setup)

Personal Safety

- Reasons Injuries Occur
- Personal Protective Equipment (PPE)
- Warning Signs

Machine Safeguarding

- Point of Operation
- Safety Devices (Light Curtains, Two-Hand Controls, Restraints/Pullbacks)
- Guards (Fixed, Interlocked, Adjustable, Movable)
- Barriers (Guard Rails, Chains)
- Operator Responsibilities/Supervisor Responsibilities

Operating the Press

- Operator Checklist – All Presses
- Manual Load Operations
- Automatic Operations
- Tail Out Procedures (End of Coil)

Changing Coils

- Loading Coils (Reels and Cradles)
- How Straighteners Work
- Threading Material Through the Straightener (step-by-step)
- Roller Depth and Pinch Roll Settings
- Threading Material Through the Feed
- Threading Material Through the Die
- Setting the Slack Loop
- Verifying the Pilot Release

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