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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