

Press Brake Operation & Safety In-Plant Training Agenda (Sample)

Two-Day Training Program

DAY 1 (6-1/2 hours)

Introduction(s)

Press Brake Construction and Function

- Press Brake Styles
- Advantages and Disadvantages
- Optimizing the Press Brake
- Machine Specific: Allsteel, Piranha, Tennsmith, Accupress, Niagara, Tennsmith Titan, Amada, Trumpf, Betenbender, Chicago, Atlantic, Pacific, Cincinnati

Press Brake Tooling

- Punch and Die
- Bottom Bending, Air Bending
- Return on Tonnage
- Dwelling
- Tooling limits psi per ft
- Types of Tools (European Precision, American Precision)
- Punch and Die Design and Radius Impact
- Flattening and Hemming,

Tool (Die) Changeover

- Loading and Unloading
- Die Carts
- Clamping
- Shimming and Crowning

Materials

- Grain Direction
- Springback
- High Strength Materials

Press Brake Operation & Safety In-Plant Training Agenda (Sample)

Two-Day Training Program

Day 2 (6-hours)

Routing

- Part Layout
- Style of Bending
- Air Bending
- Bottom Bending
- Coining
- Return on Tonnage

Controls and Simulation

- Controls System
- Advantages and Disadvantages (assumes user has knowledge of their control system)
- Measurement and Correction

Maintenance and Troubleshooting

- Identifying the Source of the Problem
- Accuracy vs. Repeatability
- Counterbalance Valve
- Leveling Valve
- Proportional Valves
- Servo Valves

Press Brake Safety

- Safeguarding
- Foot Switch, Dead Man Switch
- PPE
- Part Handling

Accessories

- Back gage
- Part Routing and Programming
- Lift Tables, Robots
- Toolholders, Magnets

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.