

Introduction to Metal Forming Technology In-Plant Training Agenda (Sample)

Full Day Training

Designed for Executives, Managers, and Supervisors in Sales, Engineering, Quality & Purchasing

Morning Session (3-1/2 hours)

Introduction(s)

Metalworking Processes

- Milling and Drilling
- Turning and Boring
- Abrasive Grinding
- Abrasive Waterjet
- Electrical Discharge Machining (EDM)
- Additive Manufacturing (3D printing)

Metal Forming Processes

- Bulk Metal Forming
- Rolling, Forging, Extruding, Bar & Wire Drawing
- Sheet Metal Forming
- Tube Forming
- Spinning
- Hydroforming
- Fabrication

Metal Stamping Processes

- Stamping Presses
- Stamping Dies
- Automatic Press Lines
- Press Shop Automation
- High Speed Stamping
- Slide Forming Operations
- Roll Forming Operations

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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Afternoon Session (3-hours)

Cutting & Punching Terminology

- Shearing
- Punching
- Piercing
- Blanking
- Shaving
- Fineblanking

Bending & Forming Terminology

- Bending Operations
- Permanent Deformation
- Springback
- Flanging
- Embossing and Stretching
- Deep Drawing
- Ironing

Steel Making and Coil Processing

- Integrated Mills vs. Mini Mills
- Hot Rolled vs. Cold Rolled Products
- Service Centers
- Pickling, Temper Rolling, Annealing
- Slitting and Coiling

Industry Standards

- Steel and Stainless Steel Alloys
- Aluminum and Aluminum Alloys
- Copper and Copper Alloy (Brass, Bronze, etc.)
- Material Certifications
- Mill Capability

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