

**FORMING/FABRICATION/STAMPING**
**FORMING/FABRICATION/STAMPING FUNDAMENTALS**

Math Fundamentals	Geometry: Circles and Polygons	Personal Protective Equipment	Hand and Power Tool Safety	ISO 9001:2015 Review
Math: Fractions and Decimals	Trigonometry: Sine, Cosine, Tangent	Noise Reduction/Hearing Conservation	Safety for Lifting Devices	5S Overview
Units of Measurement	Basic Measurement	Lockout/Tagout Procedures	Powered Industrial Truck Safety	Band Saw Operation
Basics of Tolerance	Calibration Fundamentals	SDS and Hazard Communication	Intro to Physical Properties	Manufacturing Process Applications I
Blueprint Reading	Hole Standards and Inspection	Bloodborne Pathogens	Intro to Mechanical Properties	
Geometry: Lines and Angles	Thread Standards and Inspection	Walking and Working Surfaces	Ferrous Metals	
Geometry: Triangles	Intro to OSHA	Fire Safety and Prevention	Lean Manufacturing Overview	

**PRESS OPERATOR**

Introduction to Workholding	Troubleshooting	Die Cutting Variables	Bending Fundamentals	Introduction to Mechanical Systems
Supporting and Locating Principles	Press Basics	Monitoring Press Operations	Die Bending Operations	Introduction to Hydraulic Components
Introduction to GD&T	Stamping Safety	Coil Loading Procedures	Operating the Press Brake	Essentials of Leadership
Major Rules of GD&T	Punch and Die Operations	Die Setting Procedures	Press Brake Specifications	Essentials of Communication
Approaches to Maintenance	Die Components	Press Brake Safety	Electrical Units	
Total Productive Maintenance	Coil Handling Equipment	Press Brake Components	Introduction to Circuits	

**DIEMAKER**

Basic Cutting Theory	Creating a CNC Milling Program	Basics of the Surface Grinder	Introduction to Grinding Fluids	Dressing and Truing
Speed and Feed for the Lathe	Calculations for Programming the Mill	Basics of the Cylindrical Grinder	Grinding Variables	Material Tests for Welding
Speed and Feed for the Mill	Canned Cycles for the Mill	Setup for the Surface Grinder	Grinding Ferrous Metals	
Cutting Tool Materials	Grinding Processes	Setup for the Cylindrical Grinder	Grinding Nonferrous Metals	
Carbide Grade Selection	Grinding Safety	Surface Grinder Operation	Grinding Wheel Materials	
Holemaking on the Manual Mill	Basic Grinding Theory	Cylindrical Grinder Operation	Grinding Wheel Geometry	