

On-Demand Courses for the Forging Industry

THORS Academy courses reflect industry processes from start to finish. Every step of the way, **Think THORS™** for solutions that accelerate learning and improve effectiveness.



RAW MATERIAL

Steel Basics
Steel Fundamentals



FORGING PROCESS

Forging Basics
Forgings: Closed Die Processes
Forgings: Closed Die Terminology and Equipment
Robotics Fundamentals



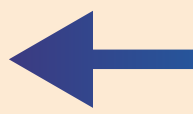
HEAT TREATMENT

Heat Treating Basics (available in Spanish)
Heat Treating Processes and Equipment
Heat Treating Safety
Heat Treating Testing and Defects



MACHINING

Cylindrical Grinding Fundamentals
Cylindrical Grinding Process Strategy
Fixturing Fundamentals for Machining
Hole Process Fundamentals
Machine Tool Fundamentals
Surface Process Fundamentals
Turning Tool and Process Basics
Lightning Learning: Turning Center Series 1 and 2
Lightning Learning: Vertical Machining Center Series 1 and 2
Lightning Learning: Horizontal Machining Center Series 1 and 2
Lightning Learning: Rotary Surface Grinding Series 1 and 2



QUALITY ASSURANCE

Engineering Drawings Fundamentals
Engineering Drawings for Castings
Engineering Drawings for Forgings
Engineering Drawings for Machining
GD & T Fundamentals
Measurements: Basic Concepts
Measurements: Measurement Math
Measurements: Measuring Processes
Measurements: Measuring Tools
Destructive Metallurgical Testing
Non-Destructive Testing
Control Plan
Production Part Approval Process (PPAP)

Contingency Planning
Process Flow Diagrams
Affinity Diagrams
7QC Tools: Check Sheets
7QC Tools: Control Charts
7QC Tools: Fishbone Diagrams
7QC Tools: Histograms
7QC Tools: Pareto Charts
7QC Tools: Scatter Diagrams
7QC Tools: Stratification
8D Problem-Solving Basics
5S Workplace Organization Method
Process Failure Mode and Effects Analysis (PFMEA)
Value Analysis and Value Engineering (VAVE)



FORGING DIE MANUFACTURING

Lightning Learning: Vertical Machining Center Series 1 and 2
Lightning Learning: Horizontal Machining Center Series 1 and 2
Welding Fundamentals

Our solution creates value for the following functions:

Design Engineering	Purchasing
Manufacturing Engineering	Quality
Manufacturing Operations	Sales



SAFETY

Personal Protective Equipment (PPE) Selection
PPE Scenarios for Forge Shops
Lockout Tagout (LOTO)



PLANT MAINTENANCE

Bearing Fundamentals
Belt Classifications: Poly V Belts
Belt Classifications: V Belts
Chain Fundamentals: Industrial
Compressors: Ancillary Equipment
Compressor Fundamentals: Positive Displacement
Electrical Power Introduction
Electric Motor Fundamentals
Electronic Terminology
Bolted Joint Basics
Threaded Fastener Testing and Defects
Threaded Fastener Terminology and Components
Threaded Fastener Specifications
Gearbox Basics
Hydraulic System Fundamentals
Oil Seal Fundamentals: Rotary Applications
Valve Basics



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