

Online Courses for the Gear 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.

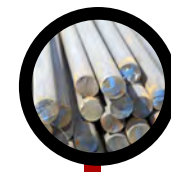
RAW MATERIALS



- Aluminum Fundamentals
- Ductile Iron Fundamentals
- Gray Iron Fundamentals
- Polymer Fundamentals
- Powder Metallurgy Basics



- Steel Basics
- Steel Fundamentals



BARSTOCK

- Steel Basics
- Steel Fundamentals

MANUFACTURING PROCESSES



CASTING

- Bonded Sand Fundamentals
- Bonded Sand Iron Casting Basics
- Engineering Drawings for Castings
- Quality Inspection for Steel Castings



FORGING

- Engineering Drawings for Forgings
- Forging Basics
- Forgings: Closed Die Processes
- Forgings: Closed Die Terminology and Equipment



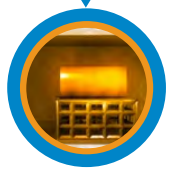
GEAR CUTTING

- Bevel and Hypoid Gear Terminology
- Engineering Drawings for Spur and Helical Gears
- Gear Chart Interpretation-Elemental
- Measurements on Cylindrical Gears
- Gear Fundamentals
- Spur and Helical Gear Terminology
- Gear Hobbing Series 1 Lightning Learning
- Gear Hobbing Series 2 Lightning Learning



MACHINING

- Engineering Drawings for Machining
- Fixturing Fundamentals for Machining
- Hole Process Fundamentals
- Machine Tool Fundamentals
- Surface Process Fundamentals
- Turning Tool and Process Basics
- Turning Center Series 1 Lightning Learning
- Turning Center Series 2 Lightning Learning
- Horizontal Machining Center Series 1 Lightning Learning
- Horizontal Machining Center Series 2 Lightning Learning
- Vertical Machining Center Series 1 Lightning Learning
- Vertical Machining Center Series 2 Lightning Learning



HEAT TREATMENT

- Heat Treating Basics
- Heat Treating Processes and Equipment
- Heat Treating Testing and Defects
- Heat Treating Safety



GEAR FINISHING

- Cylindrical Grinding Fundamentals
- Cylindrical Grinding Process Strategy
- Cylindrical Gear Manufacturing Troubleshooting
- Gear Chart Interpretation-Elemental Measurements on Cylindrical Gears
- Honing Series 1 Lightning Learning
- Honing Series 2 Lightning Learning
- Rotary Surface Grinding Series 1 Lightning Learning
- Rotary Surface Grinding Series 2 Lightning Learning



ASSEMBLY AND TESTING

- Bearing Fundamentals
- Bolted Joint Basics
- Gear Fundamentals
- Gearbox Basics
- Oil Seals Fundamentals: Rotary Applications
- Threaded Fastener Specifications
- Threaded Fastener Terminology and Components
- Threaded Fastener Testing and Defects
- Welding Fundamentals



QUALITY ASSURANCE

- Affinity Diagrams
- Destructive Metallurgical Testing
- Engineering Drawing Fundamentals
- Engineering Drawings for Spur and Helical Gears
- GD&T Fundamentals
- Measurements: Basic Concepts
- Measurements: Measurement Math
- Measurements: Measuring Processes
- Measurements: Measuring Tools
- Non-Destructive Testing
- Process Failure Modes and Effects Analysis (PFMEA)
- Process Flow Diagrams
- Value Analysis Value Engineering
- 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
- Production Part Approval Process (PPAP)
- Control Plan
- Contingency Planning Fundamentals



GEAR DESIGN

- Bearing Fundamentals
- Bevel and Hypoid Gear Terminology
- Bolted Joint Basics
- Gear Fundamentals
- Gearbox Basics
- Oil Seals Fundamentals: Rotary Applications
- Spur and Helical Gear Design Fundamentals
- Spur and Helical Gear Terminology
- Threaded Fastener Specifications
- Threaded Fastener Terminology and Components
- Value Analysis and Value Engineering (VAE)



GEAR SALES

- Bevel and Hypoid Gear Terminology
- Gear Fundamentals
- Gearbox Basics
- Spur and Helical Gear Terminology
- Understand Customer Personality Styles to Help You Sell More Effectively



SAFETY

- Personal Protective Equipment (PPE) Selection
- Lockout Tagout (LOTO)



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