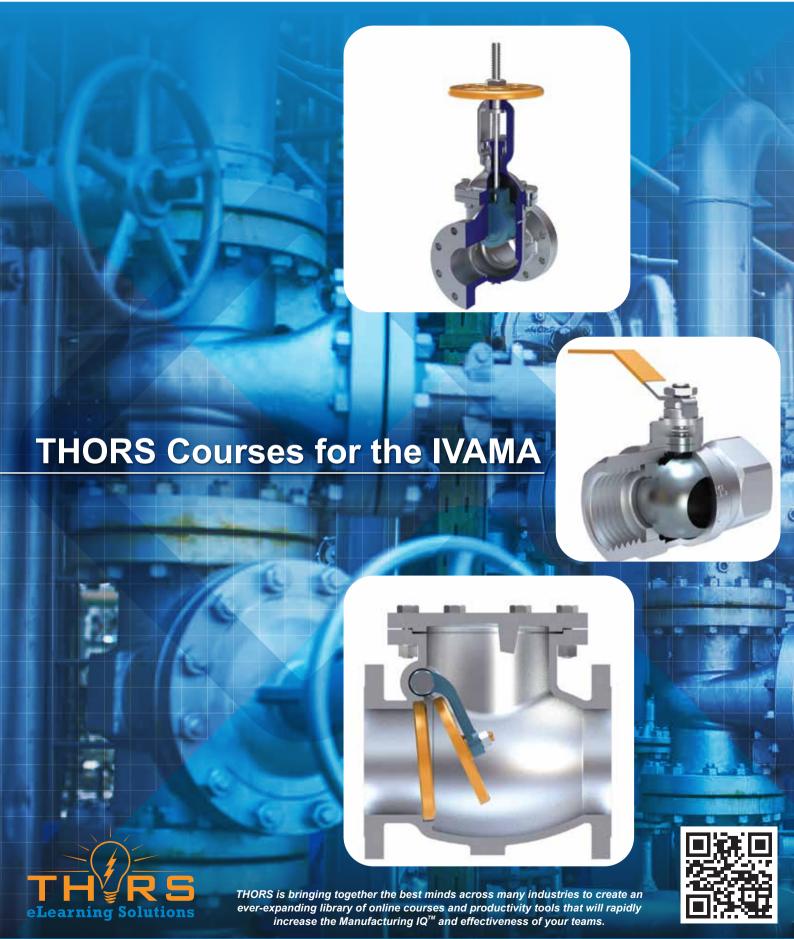
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Manufactured Products

Bearings

Bearing Fundamentals

- Belt Classifications: Poly V Belts
 Belt Classifications: Round & Flat Belts
- Belt Classifications: Special Belts
- Belt Classifications: Synchronous Belts
- Belt Classifications: V Belts

Chain

Chain Fundamentals: Industrial

Compressors

- Compressor Fundamentals: Positive Displacement
- Compressors: Ancillary Equipment

Electrical and Electronics

- Electric Motor Fundamentals
- Electrical Power Introduction
- Electronic Terminology
- Embedded System Basics Semiconductor Basics
- Variable Frequency Dive (VFD) Basics

Fasteners

- Bolted Joint Basics
- Threaded Fastener Specifications
- Threaded Fastener Terminology and Components
- Threaded Fastener Testing and Defects

Gearboxes

Gearbox Basics

Gears

- · Bevel and Hypoid Gear Terminology
- Cylindrical Gear Manufacturing Troubleshooting
- Gear Chart Interpretation-Elemental Measurements on Cylindrical Gears
- Gear Fundamentals
- Spur and Helical Gear Terminology

Hydraulics

Hydraulic System Fundamentals

Oil Seals

· Oil Seal Fundamentals: Rotary Applications

Product Design

- Product Noise Vibration, and Harshness (NVH) Troubleshooting
- · Spur and Helical Gear Design Fundamentals

Valves

- Valve Basics
- Valve Specifications and Selection (Coming Soon)

· Understand Customer Personality Styles to Help You Sell More Effectively

The THORS Academy Course Library is constantly growing with 2-3 new titles being added each month.



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To search for any word: Use CTRL+F (or Command+F on the Mac

To view more information about a course: Click on the Course Name

Manufacturing Processes

Additive Manufacturing

Additive Manufacturing Stereolithography

- · Aluminum Melting Fundamentals
- Bonded Sand Aluminum Casting Basics
- Bonded Sand Fundamentals
- Bonded Sand Iron Casting Basics
- Bonded Sand: Horizontally Parted Molds
- · Bonded Sand: Mold Patterns
- · Bonded Sand: Vertically Parted Molds · Charge Calculation for Cast Irons
- Chemically Bonded Sand Basics
- Cupola Furnace Fundamentals
- Cupola Furnace Operations
- Cupola Furnace Troubleshooting and Techniques
- Foundry Cleaning Room Equipment
- Gating and Risering Basics
- Gravity Die Casting Basics
- · Green Sand Defect Analysis
- Green Sand Equipment and Process Control
- Green Sand Properties
- Green Sand Testing
- High Pressure Die Casting Basics
- Investment Casting Basics
- Iron Melting Fundamentals
- Low Pressure Die Casting Basics
- Quality Inspection for Steel Castings
- Vacuum Process Fundamentals

Heat Treating

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

Injection Molding

- Injection Molding ProcessInjection Molding Terminology
- · Injection Molding Troubleshooting

Metal Cutting

- Cylindrical Grinding FundamentalsCylindrical Grinding Process Strategy
- Fixturing Fundamentals for Machining
 Hole Process Fundamentals
- Machine Tool Fundamentals
- Surface Process Fundamentals
- Turning Tool and Process Basics

Metal Forming

- Cold Forming FundamentalsCorrective Leveling Basics
- Forging Basics
- Forgings: Closed Die Processes
- Forgings: Closed Die Terminology and Equipment
- Metal Forming Process Selection Roll Forming Basics
- Stamping Processes
- Stamping Terminology

Plating

Plating Fundamentals

Welding

Welding Fundamentals

Materials

- Aluminum Fundamentals: Castings
- Composite Basics
- · Destructive Metallurgical Testing
- Ductile Iron Fundamentals
- Gray Iron Fundamentals Non-Destructive Testing
- Polymer Basics
- Polymer Fundamentals
- Powder Metallurgy Basics Steel Basics
- Steel Fundamentals
- Steel Tubing Basics

Manufacturing Fundamentals

- Engineering Drawings
 Engineering Drawings Fundamentals
 Engineering Drawings for Castings
- Engineering Drawings for ForgingsEngineering Drawings for Hydraulics
- Engineering Drawings for Machining
 Engineering Drawings for Spur and
- Helical Gears
- GD&T Fundamentals

Manufacturing Excellence

- 5S Workplace Organization Method
- Contingency Planning Fundamentals
- Purchase Order Fundamentals
- Value Analysis and Value Engineering (VAVE)

Quality

- 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
- Advanced Product Quality Planning (APQP)
- Affinity Diagrams Control Plan
- · Coordinate Measuring Machine (CMM) Basics
- · Measurements: Basic Concepts • Measurements: Measurement Math
- Measurements: Measuring Processes
- Measurements: Measuring Tools
- Process Failure Mode and Effects Analysis (PFMEA)
- Production Part Approval Process (PPAP)
- Process Flow Diagrams
- · Shop Math: Fractions Statistical Process Control (SPC) Basics

Industrial Safety

- Personal Protective Equipment (PPE) Selection
- PPE Scenarios for Forge Shops
- Precision Grinding: Abrasive
- Wheel Safety Safety: Lockout Tagout (LOTO)

- **Industry 4.0**
- Automation Basics • Internet of Things: Manufacturing
- · Robotics Fundamentals • Sensors: Measurement Concepts

Machining Video Series Course List

- Machining
- Broaching Video SeriesGear Hobbing Video Series 1Gear Hobbing Video Series 2
- Honing Video Series 1Honing Video Series 2
- Horizontal Machining Center (HMC) Video Series 1
- Horizontal Machining Center (HMC) Video Series 2
- Rotary Surface Grinding Video Series 1
 Rotary Surface Grinding Video Series 2 Turning Center Video Series 1
- Turning Center Video Series 2
- Turning Center Video Series 3
- Vertical Machining Center (VMC) Video Series 1
 Vertical Machining Center (VMC) Video Series 2

Unique Benefits of our Video Series Courses

- The lessons are comprised of 100% fully narrated, short, and engaging animated videos.
- The learner is reassessed on their learning until the desired knowledge level is achieved.

• The learner has the option to first be assessed on what they know and do

