## **On-Demand Courses for the Valve Industry**

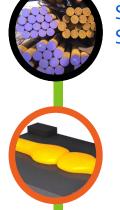
THORS Academy courses reflect industry processes from start to finish. Every step of the way, **Think THORS™** for solutions that accelerate learning and improve effectiveness.

# MATERIALS PROCESSES

Aluminum Casting Fundamentals Ductile Iron Fundamentals Gray Iron Fundamentals

#### CASTING

Bonded Sand Fundamentals Bonded Sand Iron Casting Basics Bonded Sand: Horizontally Parted Molds Bonded Sand: Mold Patterns Bonded Sand: Vertically Parted Molds Chemically Bonded Sand Basics Gating and Risering Basics Gravity Die Casting Basics High Pressure Die Casting Basics Low Pressure Die Casting Basics Investment Casting Basics Vacuum Process Fundamentals



Steel Basics Steel Fundamentals

### FORGING

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



## Our solution creates value for the following functions:

Design Engineering Manufacturing Engineering Manufacturing Operations Purchasing Quality Sales



#### **HEAT TREATMENT**

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



#### ADDITIONAL COMPONENTS

Hydraulic System Fundamentals Gearbox Basics Bearing Fundamentals Electronic Terminology Electric Power Introduction





#### MACHINING

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: Honing Series 1 and 2 Lightning Learning: Rotary Surface Grinding Series 1 and 2 Lightning Learning: Gear Hobbing Series 1 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

#### Electric Motor Fundamentals Bolted Joint Basics Threaded Fastener Specifications Threaded Fastener Terminology and Components Threaded Fastener Testing and Defects Oil Seal Fundamentals: Rotary

**Applications** 

Welding Fundamentals

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

**Quality Inspection for Steel Castings** 

**Destructive Metallurgical Testing** 

**Green Sand Defect Analysis** 

**Non-Destructive Testing** 

7QC Tools: Check Sheets

7QC Tools: Control Charts

7QC Tools: Histograms

7QC Tools: Pareto Charts

7QC Tools: Fishbone Diagrams

**Affinity Diagrams** 



#### MANUFACTURING EXCELLENCE

Valve Basics – Just Released! Contingency Planning Fundamentals 5S Workplace Organization Method Value Analysis and Value Engineering (VAVE) Internet of Things: Manufacturing Robotics Fundamentals Purchase Order Fundamentals



**R**S Academy

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#### **QUALITY ASSURANCE**

Engineering Drawing Fundamentals Engineering Drawing Castings Engineering Drawing Forgings Engineering Drawing Machining GD & T Fundamentals Measurements: Basic Concepts Measurements: Measurement Math Measurements: Measuring Processes Measurements: Measuring Tools

Process Flow Diagrams7QC Tools: Scatter DiagramsControl Plan7QC Tools: StratificationProduction Part Approval Process (PPAP)Process Failure Modes and Effects Analysis (PFMEA)8D Problem-Solving BasicsImage: Control Plan