

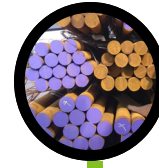
On-Demand Courses for the Valve Industry

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



Aluminum Fundamentals
Ductile Iron Fundamentals
Gray Iron Fundamentals



Steel Basics
Steel Fundamentals

PROCESSES



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 Riser Basics
Gravity Die Casting Basics
High Pressure Die Casting Basics
Investment Casting Basics
Vacuum Process Fundamentals

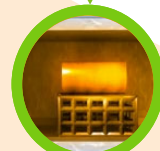


FORGING

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

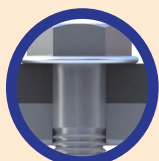
Our solution creates value for the following functions:

| | |
|---------------------------|------------|
| Design Engineering | Purchasing |
| Manufacturing Engineering | Quality |
| Manufacturing Operations | Sales |



HEAT TREATMENT

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



ASSEMBLY

Fasteners

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

Bearings

Bearing Fundamentals

Oil Seals

Oil Seal Fundamentals: Rotary Applications

Welding

Welding Fundamentals



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
Turning Center Lightning Learning
Horizontal Machining Center Lightning Learning
Vertical Machining Center Lightning Learning



QUALITY ASSURANCE

Destructive Metallurgical Testing
Non-Destructive Testing
Quality Inspection for Steel Castings
Process Flow Diagrams
Measurements: Basic Concepts
Measurements: Measurement Math
Measurements: Measuring Processes
Measurements: Measuring Tools
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

Engineering Drawing Fundamentals
Engineering Drawing Castings
Engineering Drawing Forgings
Engineering Drawing Machining
GD & T Fundamentals

