On-Demand Courses for the Aluminum Casting 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

Steel Basics Steel Fundamentals

PATTERN AND DIE TOOLING

Gating and Risering Basics Vertical Machining Center Lightning Learning EDM Lightning Learning*

Our solution creates value for the following functions:

Design Engineering Manufacturing Engineering Manufacturing Operations

Purchasing Quality Sales

OUALITY ASSURANCE

Engineering Drawings Fundamentals Engineering Drawings for Castings **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 Quality Inspection for Steel Castings

Contingency Planning **Process Flow Diagrams Affinity Diagrams** 70C 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 55 Workplace Organization Method Process Failure Mode and Effects Analysis Value Analysis Value Engineering

SAFETY PPE Selection Lockout Tagout



PLANT MAINTENANCE

Bolted Joint Basics Bearing Fundamentals Belt Classifications: Poly V Belts Belt Classifications: V Belts Chain Fundamentals: Industrial Compressors: Ancillary Equipment Compressor Fundamentals: Positive Displacement **Electric Motor Fundamentals**

Electrical Power Introduction Electronic Terminology Gearbox Basics Hydraulic System Fundamentals Threaded Fastener Testing and Defects Threaded Fastener Terminology and Components **Robotic Fundamentals** Threaded Fastener Specifications Oil Seal Fundamentals: Rotary Applications

WWW.THORS.COM **R S Academy**



RAW MATERIALS

Aluminum Fundamentals: Casting Destructive Metallurgical Testing Non-Destructive Testing

MELTING PROCESS

Aluminum Melting Fundamentals

MOLDING

Bonded Sand Horizontally Parted Molds Bonded Sand Mold Patterns Bonded Sand Vertically Parted Molds **Green Sand Defects** Green Sand Equipment and Process Green Sand Properties Green Sand System Testing

CLEANING/FINISHING AND MACHINING

Foundry Cleaning Room Equipment Abrasive Grinding Wheel Safety Fixturing Fundamentals for Machining Hole Process Fundamentals Machine Tool Fundamentals Surface Process Fundamentals Turning Tool and Process Basics

Lightning Learning:

Horizontal Machining Center Turning Center I Vertical Machining Center

* to be released shortly