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 Lightning Learning: Vertical Machining Center Series 1 and 2 Lightning Learning: Horizontal Machining Center Series 1 and 2

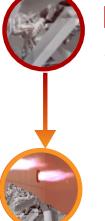
Our solution creates value for the following functions:

Design Engineering Manufacturing Engineering Manufacturing Operations Purchasing Quality Sales



QUALITY 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 Production Part Approval Process (PPAP) Control Plan Contingency Planning Process Flow Diagrams 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 5S Workplace Organization Method Process Failure Mode and Effects Analysis (PFMEA)



RAW MATERIALS

Aluminum Casting Fundamentals Destructive Metallurgical Testing Non-Destructive Testing

MELTING PROCESS

Aluminum Melting Fundamentals Cupola Furnace Fundamentals Cupola Furnace Operations Cupola Furnace Troubleshooting and Techniques

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

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: Turning Center Series 1 and 2 Lightning Learning: Vertical Machining Center Series 1 and 2 Lightning Learning: Horizontal Machining Center Series 1 and 2

Value Analysis and Value Engineering (VAVE)



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





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 Valve Basics Electrical Power Introduction Electronic Terminology Gearbox Basics Hydraulic System Fundamentals Threaded Fastener Testing and Defects Threaded Fastener Terminology and Components Robotic Fundamentals Internet of Things: Manufacturing Automation Basics Threaded Fastener Specifications Oil Seal Fundamentals: Rotary Applications



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