

Engineering Drawings

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

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
- GD&T Measurement Basics
- Measurements: Basic Concepts
- Measurements: Measurement Math
- Measurements: Measuring Processes
- Measurements: Measuring Tools
- Process Failure Mode and Effects Analysis (PFMEA)
- Process Failure Mode and Effects Analysis (PFMEA) AIAG & VDA
- Production Part Approval Process (PPAP)
- Process Flow Diagrams
- Shop Math: Fractions
- Statistical Process Control (SPC) Basics
- Surface Finish Measurement Basics

Industry 4.0

- Automation Basics
- Internet of Things: Manufacturing
- Sensors: Measurement Concepts
- Robotics Fundamentals

Manufacturing Excellence

- 5S Workplace Organization Method
- Contingency Planning Fundamentals
- Cycle Time
- Lead Time
- Overall Equipment Effectiveness (OEE)
- Purchase Order Fundamentals
- Takt Time
- Understanding Incoterms® Rules
- Value Analysis and Value Engineering (VAVE)

Safety and Compliance

- Personal Protective Equipment (PPE) Selection
- Prevention Of Sexual Harassment (POSH) in the Workplace
- Safety: Lockout Tagout (LOTO)

This category includes an additional 600+ courses in Safety and Workplace Compliance. Contact us to learn more.

Materials

- Aluminum Fundamentals: Castings
- Ceramic Basics
- 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
- Steel Tubing Production
- Wrought Aluminum Basics

Manufacturing Processes

Additive Manufacturing

- Additive Manufacturing Stereolithography

Castings

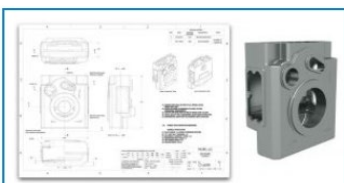
- Aluminum Melting Fundamentals
- Bonded Sand Aluminum Casting Basics
- Bonded Sand Fundamentals
- Bonded Sand Iron Casting Basics
- Bonded Sand: Horizontally Parted Molds
- Bonded Sand: Mold Patterns
- Bonded Sand: Vertically Parted Molds
- Charge Calculation for Cast Irons
- Chemically Bonded Sand Basics
- Cupola Furnace Fundamentals
- Cupola Furnace Operations
- Cupola Furnace Troubleshooting and Techniques
- Foundry Cleaning Room Equipment
- Gating and Riser 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
- Induction Melting Furnace I
- 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 (*available in Spanish*)
- Heat Treating Testing and Defects

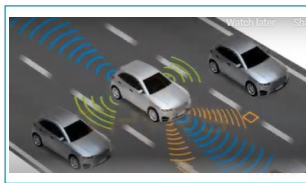
Injection Molding

- Injection Molding Process
- Injection Molding Terminology
- Injection Molding Troubleshooting



Engineering Drawings Fundamentals

Engineering Drawings



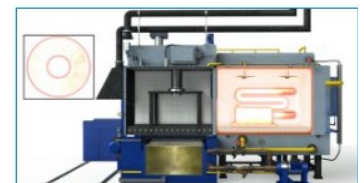
Autonomous, Connected, Electric and Shared (ACES) Vehicle Fundamentals

Systems



Polymer Fundamentals

Materials



Heat Treating Processes and Equipment

Heat Treating

Manufacturing Processes (cont'd)

Machining Video Series

- Broaching Video Series
- Cylindrical Grinding Video Series 1
- Gear Hobbing Video Series 1
- Gear Hobbing Video Series 2
- Honing Video Series 1
- Honing Video Series 2
- Horizontal Machining Center (HMC) Video Series 1
- Horizontal Machining Center (HMC) Video Series 2
- Horizontal Machine Center (HMC) Machine Safety
- 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

Metal Cutting

- Centerless Grinding I
- Centerless Grinding II
- Cylindrical Grinding Fundamentals
- Cylindrical Grinding Process Parameters
- Cylindrical Grinding Process Strategy
- Fixturing Fundamentals for Machining
- Hole Process Fundamentals
- Industrial Band Saw Blade Operation
- Machine Tool Fundamentals
- Precision Grinding: Abrasive Wheel Safety
- Surface Process Fundamentals
- Turning Tool and Process Basics

Metal Forming

- Cold Forming Fundamentals
- Corrective Leveling Basics
- Forging Basics
- Forgings: Closed Die Processes
- Forgings: Closed Die Terminology and Equipment
- Forgings: PPE Scenarios for Forge Shops
- Metal Forming Process Selection
- Roll Forming Basics
- Stamping Processes
- Stamping Terminology

Painting

- Cathodic Electrodeposition (CED) Painting Basics

Plating

- Plating Fundamentals

Welding

- Welding Fundamentals

Manufactured Products

Bearings

- Bearing Fundamentals

Belts

- 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
- Electrostatic Discharge (ESD) Basics
- Embedded System Basics
- Light Emitting Diode (LED) Basics
- Passive Electronic Circuit Basics
- Printed Circuit Board (PCB) Basics
- Printed Circuit Board (PCB) Manufacturing
- Programmable Logic Controller (PLC) Basics
- Semiconductor Basics
- Semiconductor Manufacturing I
- Semiconductor Manufacturing II
- Semiconductor Manufacturing III
- Semiconductor Metrology Basics
- Semiconductor Metrology Instruments
- Variable Frequency Drive (VFD) Basics
- Wiring Harness Components

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
- Generating Gear Grinding I
- Generating Gear Grinding II
- Spur and Helical Gear Terminology

Hydraulics

- Hydraulic System Fundamentals

Manufactured Products (cont'd)

Seals

- Oil Seal Fundamentals: Rotary Applications
- Seal Basics

Product Design

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

Tires

- Pneumatic Tires: Tire Defects
- Pneumatic Tires: Tire Labels and Markings
- Pneumatic Tires: Tire Terminology

Valves

- Engine Valve Manufacturing
- Valve Basics

Wheels

- Wheel Basics

Automotive Systems

- Autonomous, Connected, Electric, and Shared (ACES) Vehicle Fundamentals
- Braking Systems: Hydraulic
- Braking Systems: Pneumatic
- Differential Basics
- Drive Axles: Heavy Duty Commercial Vehicles
- Electric Vehicle Battery Basics
- Engine Fundamentals: Internal Combustion
- Engine Testing Methods and Systems: Internal Combustion
- Exhaust Gas Recirculation (EGR) System Basics
- Filtration Systems for Transportation and Industrial Applications
- Heating, Ventilation, and Air Conditioning (HVAC) Basics
- Hydrogen Powered Internal Combustion Engine (HPICE) Basics
- Lithium-Ion Battery Charging
- Lithium-Ion Battery Manufacturing
- Lithium-Ion Battery Materials
- Lithium-Ion Battery Safety
- Lithium-Ion Battery Testing
- Steering System Basics
- Suspension System Basics
- Traction Motor Stator Assembly Process
- Traction Motors for Electric Vehicles
- Transfer Case Principles
- Transmission Fundamentals: Automatic
- Turbocharger Basics



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