

PROVIDE PATHWAYS TO REWARDING CAREERS

Amatrol's Mechanical series of training solutions were designed to teach mechanical skills that employers have identified as missing in incoming workers.



MECHANICAL DRIVES		PUMP SYSTEMS	
Available Systems		Available Systems	
Mechanical Drives 1 (970-ME1)	Power Transmission Systems, V-Belt, Chain, & Spur Gears	Centrifugal Pump (950-PM1)	Pump Concepts, Operation, Flow, Pump Calculations, Troubleshooting
Mechanical Drives 2 (97-ME2)	Heavy Duty Drives, Precision Shaft Alignment	Multiple Pump (95-PM1-A)	Series & Parallel Pump Systems, Performance, Efficiency
Mechanical Drives 3 (97-ME3)	Bearings, Helical & Bevel Gear Drives, Lubrication	Turbine Pump (95-PM1-B)	Installation, Flow/Pressure, Troubleshooting, Disassembly
Mechanical Drives 4 (97-ME4)	Ball Screws, Linear Ball Bearings, Cams, Clutches, Brakes	Diaphragm Pump (95-PM1-C)	Installation, Selection & Sizing, Flow/Pressure, Disassembly
Roller Pack Machine Tool Axis (97-ME4A)	Linear Roller Bearing, Tapered Gib Adjustment, Preload Setting	Peristaltic Pump (95-PM1-D)	Installation, Flow/Pressure, Pulsation, Performance, Disassembly
Plain Bearing Machine Tool Axis (97-ME4B)	Dovetail Slides, Gibs, Ways, Alignments, Maintenance	Piston Pump (95-PM1-E)	Installation, Flow/Pressure, Maintenance, Troubleshooting
Floor-Standing Belt Conveyor (97-ME4D)	Belt Installation & Adjustment, Maintenance & Troubleshooting	Gear Pump (95-PM1-F)	Installation, Flow/Pressure, Selection, Maintenance, Troubleshooting
Machine Tool Chip Conveyor (97-ME4E)	Belt Installation & Adjustment, Maintenance & Troubleshooting	Magnetic Pump (95-PM1-G)	Installation, Flow/Pressure, Disassembly, Troubleshooting
Laser Shaft Alignment (97-ME2A)	Laser Alignment Operation, Alignment Analysis	Centrifugal Pump with Stuffing Box (95-PM1-H)	Installation, Adjustment, Flow/Pressure, Troubleshooting
Vibration Analysis (97-ME5A)	Vibration Meter Operation, Severity Charts, Vibration Analysis	PIPING SYSTEMS	
PORTABLE MECHANICAL DRIVES		Available Systems	
Available Systems		Piping (950-PS1) Metal & Plastic Piping, Metal Tubing, & Hose System Installations	
Portable Mechanical Drives 1 (990-ME1M)	Power Transmission Systems, V-Belt, Chain, & Spur Gears	CENTRAL LUBRICATION SYSTEMS	
Portable Mechanical Drives 2 (97-ME2M)	Heavy Duty Drives, Precision Shaft Alignment	Available Systems	
Portable Laser Shaft Alignment (99-ME2AM)	Laser Alignment Operation, Alignment Analysis	Central Lubrication (950-CL1) Series/Progressive Valves, Programming, Troubleshooting	
VIBRATION ANALYSIS		RIGGING SYSTEMS	
Available Systems		Available Systems	
Predictive Maintenance Vibration Analysis (95-ME5AI)	Vibration Meter Operation, Severity Charts, Vibration Analysis	Rigging 1 (950-RGB1)	Rigging Concepts, Hoists, Wire Rope & Chain Slings, Selection & Maintenance
MECHANICAL FABRICATION		Rigging 2 (95-RGB2)	Synthetic Slings, Cranes, Equipment Movement, Roller Bars, Dollies, Jacks
Available Systems		Rigging 3 (95-RGB3)	Wire Mesh Slings, Fiber Rope, Load Movement & Turning, Rigging Knots
Mechanical Fabrication (950-PMF1)	Assembly Methods, Fasteners, Hand Tools, Pneumatic Systems, Power Tools		



MECHANICAL SYSTEMS

COMPREHENSIVE CURRICULUM & HANDS-ON SYSTEMS FOR DRIVES, PUMPS, PIPING, RIGGING, & MORE

2400 Centennial Blvd.
 Jeffersonville, Indiana 47130 U.S.A.
 Phone: 812.288.8285 • Fax: 812.283.1584
 Toll Free in USA & Canada: 800.264.8285
 Email: contact@amatrol.com • www.amatrol.com



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MECHANICAL SKILLS ARE ESSENTIAL FOR CAREER SUCCESS



Our Systems Provide Individuals with the Hands-On Skills That Employers Can Count On!

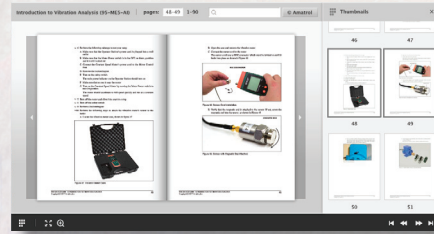


95-ME5-AI

Provide Preventive Maintenance Skills

Vibration Analysis – 95-ME5-AI

Includes the ability to generate a wide range of machine vibrations for real-world training.



Online eBook

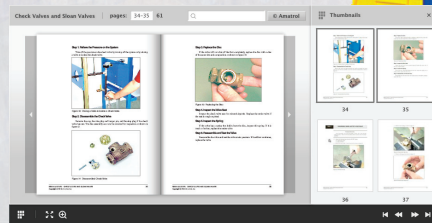
- Resonant Frequency
- Sympathetic Vibration
- Vibration Measurement
- Vibration Analysis
- Vibration Dampening
- Vibration Troubleshooting

Teach Proper Piping Techniques

Piping System – 950-PS1

Adjustable obstacles simulate piping situations that occur in every factory!

- Metal & Plastic Piping Assembly
- Schematics & Layout
- Pipe Hangers
- Metal Tubing Cutoff & Bending
- Hose Cutoff & Fittings
- 2-Way Valve Installation
- Check & Sloan Valves



Online eBook



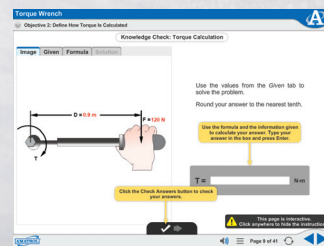
950-PS1

Provide Basic Hand Tool Skills

Mechanical Fabrication – 950-MPF

Hand tool skills are essential for everyone including Industrial Maintenance & Mechatronics Technicians.

- Mechanical Assemblies
- Threaded & Non-Threaded Fasteners
- Wrenches
- Torque Wrenches
- Pliers & Locking Devices
- Power Tools



Interactive Multimedia

Teach Mechanical Drives & Alignments!

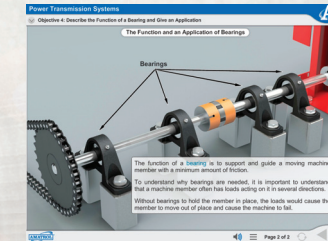
Mechanical Drives – 970-ME Series

Incredible range of levels/options to meet all of your training needs. Interactive Curriculum Included!

- Belt Drives, Chain Drives, Gear Trains
- Jaw, Flange, Chain, & Grid Couplings
- Reverse Indicator & Laser Alignments
- Ball, Tapered Roller, & Angular Contact Bearings
- Vibration Measurement
- Flat Belt & Chip Conveyor Maintenance
- Electric Brake & Clutch
- Dovetail & Roller Pack/Tapered Gibs Slides



970-ME Series



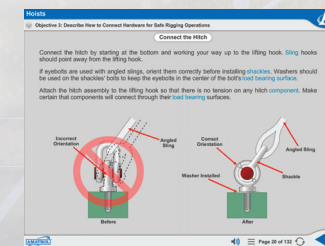
Interactive Multimedia

Provide Hands-On Rigging Training

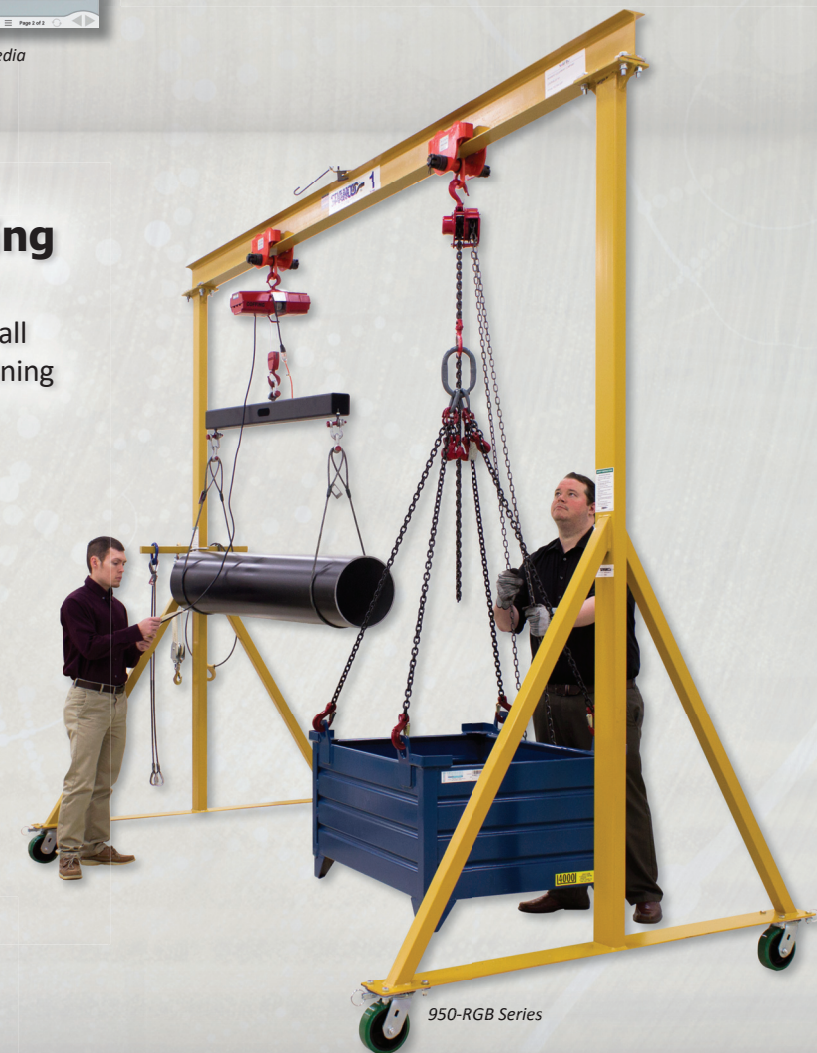
Rigging Systems 950-RGB Series

This rigging system provides hands-on experience with all types of loads and rigging methods for the ultimate training experience.

- Rigging Safety
- Wire Rope, Chain, Synthetic, & Wire Mesh Slings
- Basket, Double-Basket, Choker, & Bridle Hitches
- Load & Sling Force Calculations
- Electric Wire Rope Hoist, Chain Hoist, and Block & Tackle
- Rigging Hooks, Shackles, & Eyebolts
- Fiber Rope Knots, Whipping, & Splicing
- Rigging Maintenance



Interactive Multimedia



950-RGB Series



950-MPF1