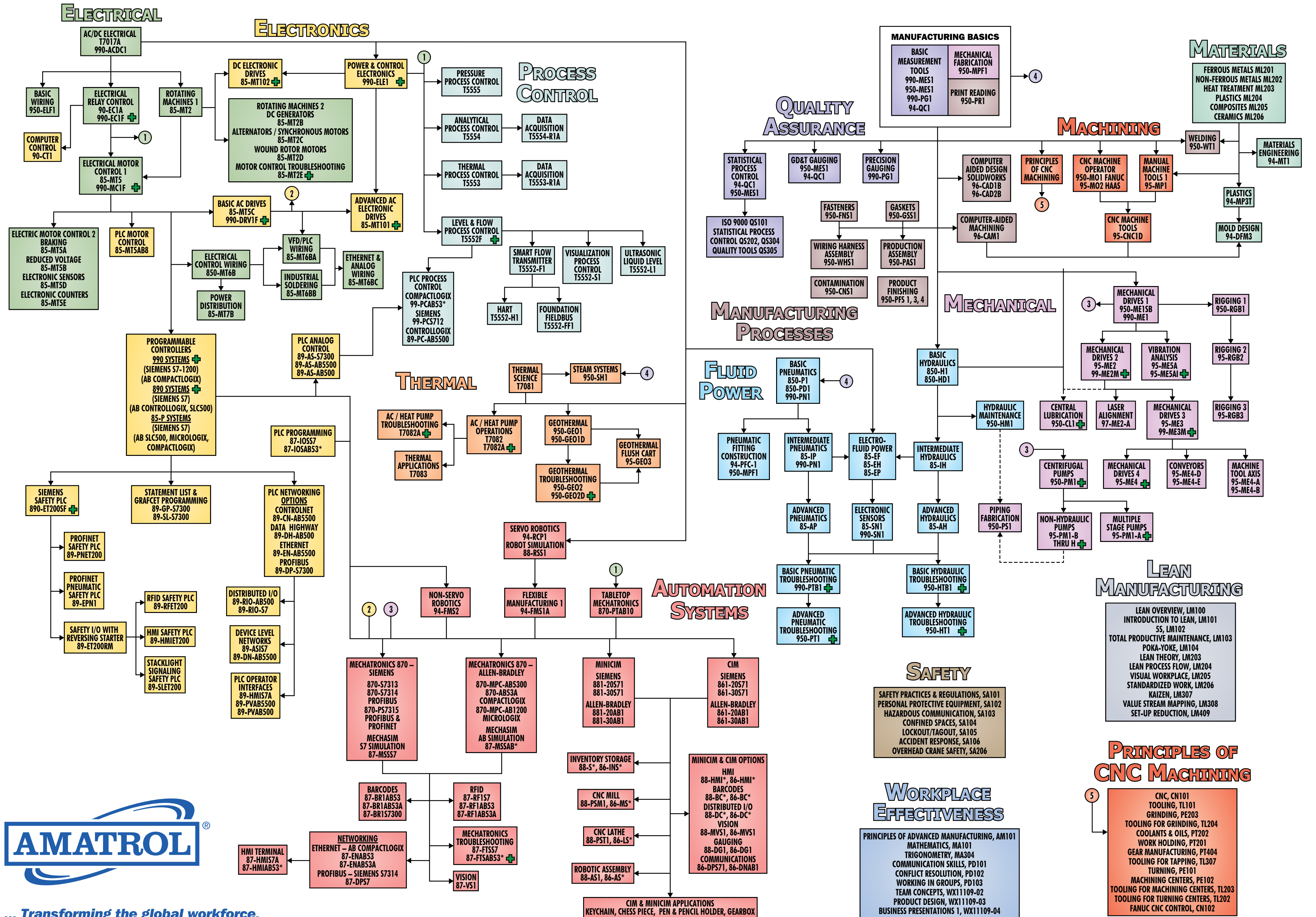


# ADVANCED MANUFACTURING SKILLS



... Transforming the global workforce,  
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Includes Troubleshooting Skills

# **ELECTRICAL**

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**AC/DC Electrical Learning System – T7017A**

**Portable AC/DC Electrical Learning System – 990-ACDC1**

**[Back to Chart](#)**

# **ELECTRICAL**

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**Electric Relay Control Unit – 90-EC1-A**

**Portable Electrical Relay Control Troubleshooting Learning System – 990-EC1F**

**[Back to Chart](#)**

# **ELECTRICAL**

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**Electric Motor Control Learning System – 85-MT5**

**Portable Motor Control Troubleshooting Learning System – 990-MC1F**

**[Back to Chart](#)**

# **ELECTRICAL**

---

**Motor Braking Learning System – 85-MT5-A**

**Reduced Voltage Starting Learning System – 85-MT5-B**

**Variable Frequency AC Drive Learning System – 85-MT5-D**

**Electronic Sensors Learning System – 85-MT5-E**

**[Back to Chart](#)**

# **ELECTRICAL**

---

**DC Generators Learning System – 85-MT2-B**

**Alternators/Synchronous Motors Learning System – 85-MT2C**

**Wound Rotor Motor Learning System – 85-MT2D**

**Motor Troubleshooting Learning System – 85-MT2E**

**[Back to Chart](#)**

# **ELECTRONICS**

---

**Variable Frequency AC Drive – 85-MT5C**

**Portable AC Motor Drive Troubleshooting Learning System – 990-DRV1F**

**[Back to Chart](#)**

# **ELECTRONICS**

---

**PLC Analog Learning System - Siemens S7300 – 89-AS-S7300**

**PLC Analog Learning System – 89-AS-AB5500**

**SLC500 Analog PLC Applications Unit – 89-AS-AB500**

**[Back to Chart](#)**



# **ELECTRONICS**

---

**Portable PLC Learning System Siemens S7-1200 – 990-PS712**

**Portable PLC Troubleshooting Learning System – Siemens S7-1200 – 990-PS712F**

**Portable PLC Learning System (Allen-Bradley ControlLogix 5300) – 990-PAB53A**

**Portable PLC Troubleshooting Learning System (Allen-Bradley CompactLogix) – 990-PAB53AF**

**Programmable Controller Troubleshooting Learning System – 890-PECB**

**PLC Troubleshooting Learning System-Siemens S7312 – 890-S7312B**

**PLC Troubleshooting Learning System-Siemens S7315 – 890-S7315-B**

**Allen Bradley Control Logix PLC System – 890-AB5500**

**Allen Bradley SLC503 PLC Troubleshooting Learning System – 890-AB503B**

**Programmable Controller Learning System – 85-P-AB503**

**Programmable Controller Learning System – 85-P-AB5300**

**Programmable Controllers Siemens S7 – 85-P-S7**

[\*\*Back to Chart\*\*](#)

# **ELECTRONICS**

---

**PLC I/O Simulator Learning System (Siemens S7) – 87-IOSS7**

**PLC I/O Simulator Learning System (CompactLogix) – 87-IOSAB53**

**[Back to Chart](#)**

# **ELECTRONICS**

---

**PLC Graph Programming Learning System – 89-GP-S7300**

**89-SL-S7300**

**[Back to Chart](#)**

# **ELECTRONICS**

---

**PLC ControlNet Learning System – 89-CN-AB5500**

**SLC500 Data Highway DH-485 Unit (for SLC5/02) – 89-DH-AB500A**

**PLC EtherNet Learning System for ControlLogix – 89-EN-AB5500**

**PLC Profibus Learning System - Siemens S7 – 89-DP-S7300**

**[Back to Chart](#)**

# **ELECTRONICS**

---

**PLC Distributed I/O Learning System – 89-RIO-AB500**

**PLC Distributed I/O Learning System – 89-RIO-S7**

**[Back to Chart](#)**

# **ELECTRONICS**

---

**PLC ASI Bus Learning System – Siemens S7300 – 89-ASI-S7300**

**PLC Devicenet Learning System – Control Logix – 89-DN-AB5500**

**[Back to Chart](#)**

# **ELECTRONICS**

---

**PLC Touch Screen Learning System - TP270 – 89-HMIS7A**

**PanelView Plus Learning System - Allen Bradley ControlLogix – 89-PV-AB5500**

**PanelView Operator Learning System - SLC500 – 89-PV-AB500**

**[Back to Chart](#)**

# **PROCESS CONTROL**

---

**PLC Process Control Learning System (AB CompactLogix) – 99-PCAB53**

**PLC Process Control Learning System (Siemens S7-1200) – 99-PCS712**

**ControlLogix Process Control Learning System – 89-PC-AB5500**

**[Back to Chart](#)**



# **THERMAL**

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**Air Conditioning / Heat Pump Learning System – T7082**

**Air Conditioning / Heat Pump Troubleshooting Learning System – T7082A**

**[Back to Chart](#)**

# **THERMAL**

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**Geothermal Learning System – 950-GE01**

**Geothermal Learning System with Desuperheater – 950-GE01D**

**[Back to Chart](#)**

# **THERMAL**

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**Geothermal Troubleshooting Learning System – 950-GE02**

**Geothermal Troubleshooting Learning System with Desuperheater – 950-GE02D**

**[Back to Chart](#)**

# **AUTOMATION SYSTEMS**

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**Robotics & Computer Programming 1 Learning System – 94-RCP-1-A**

**Pegasus Robotics Simulation Learning System – 88-RSS-1-A**

**[Back to Chart](#)**

# **AUTOMATION SYSTEMS**

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**Mechatronics Learning System for Siemens S7-300 – 870-MPC-S7313**

**Mechatronics Learning System for Siemens S7-300 with Profibus – 870-MPC-S7314**

**Mechatronics Learning System for Siemens S7-300 with Profibus and Profinet – 870-PS7315**

**MechaSIM Mechatronics Simulation Learning System – Siemens S7 - 87-MSSS7**

**[Back to Chart](#)**

# **AUTOMATION SYSTEMS**

---

**Mechatronics Learning System for AB Compact Logix – 870-PAB5300**

**Mechatronics Learning System (AB CompactLogix L16) – 870-AB53A**

**Mechatronics Learning System for AB MicroLogix – 870-MPC-AB1200**

**MechaSIM Mechatronics Simulation Learning System (AB CompactLogix L16) – 87-MSSAB53A**

**MechaSIM Mechatronics Simulation Learning System (AB CompactLogix L32) – 87-MSSAB5300**

**[Back to Chart](#)**

# AUTOMATION SYSTEMS

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**Siemens 861**

**-20S71**

**-30S71**

**Allen-Bradley 861**

**-20AB1**

**-30AB1**

[\*\*Back to Chart\*\*](#)

# **AUTOMATION SYSTEMS**

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**Mechatronics Barcode Identification Learning System  
(AB CompactLogix L32) - 87-BR1AB53**

**Mechatronics Barcode Identification Learning System  
(AB CompactLogix L16) - 87-BR1AB53A**

**Mechatronics Barcode Identification Learning System  
(Siemens S7-300 Series) - 87-BR1S7300**

**[Back to Chart](#)**



# **AUTOMATION SYSTEMS**

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**Mechatronics HMI Terminal Learning System - Siemens S7, Type A – 87-HMIS7A**

**Mechatronics HMI Terminal Learning System (AB CompactLogix L32) – 87-HMIAB53**

**[Back to Chart](#)**

# **AUTOMATION SYSTEMS**

---

**Mechatronics RF Identification Learning System (Siemens 300 Series) – 87-RF1S7300**

**Mechatronics RF Identification Learning System (AB Compact Logix) – 87-RF1AB53**

**Mechatronics RF Identification Learning System (Compact Logix L16) – 87-RF1AB53A**

**[Back to Chart](#)**

# **AUTOMATION SYSTEMS**

---

**Mechatronics Troubleshooting Learning System (Siemens S7 series) – 87-FTSS7**

**Mechatronics Troubleshooting Learning System (CompactLogix L16) – 87-FTSAB53A**

**[Back to Chart](#)**

# QUALITY ASSURANCE

---

**Portable Measurement Tools Learning System – 990-MES1**

**Measurement Tools Learning System – 950-MES1**

**Portable Precision Gauging – 990-PG1**

**Quality Assurance 1 Learning System – 94-QC1**

**[Back to Chart](#)**

# QUALITY ASSURANCE

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**Measurement Tools Learning System – 950-MES1**

**Quality Assurance 1 Learning System – 94-QC1**

**[Back to Chart](#)**

# QUALITY ASSURANCE

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**ISO 9000 – QS101**

**Statistical Process Control – QS202, QS304**

**Quality Tools – QS305**

**[Back to Chart](#)**

# MANUFACTURING PROCESSES

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**Computer Aided Design 1 - SolidWorks – 96-CAD1B**

**Computer Aided Design 2 - SolidWorks – 96-CAD2B**

**[Back to Chart](#)**

# **FLUID POWER**

---

**Basic Pneumatics Learning System – 850-P1**

**Controls Technology Learning System (Basic Pneumatics, Double Sided) – 850-PD1**

**Portable Pneumatics Learning System – 990-PN1**

**[Back to Chart](#)**



# **FLUID POWER**

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**Pneumatic Fitting Construction Learning System – 94-PFC-1**

**Mechanical Fabrication 1 Learning System – 950-MPF1**

**[Back to Chart](#)**

# **FLUID POWER**

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**Intermediate Pneumatics Learning System – 85-IP**

**Portable Pneumatics Learning System – 990-PN1**

**[Back to Chart](#)**

# **FLUID POWER**

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**Electro-Fluid Power Learning System – 85-EF**

**Electro-Hydraulics Learning System – 85-EH**

**Electro-Pneumatics Learning System – 85-EP**

**[Back to Chart](#)**

# FLUID POWER

---

**Electronic Sensors System – 85-SN**

**Portable Electronic Sensors Learning System – 990-SN1**

**[Back to Chart](#)**

# **FLUID POWER**

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**Controls Technology Learning System (Basic Hydraulics) – 850-H1**

**Controls Technology Basic Hydraulic Learning System - Double Sided – 850-HD1**

**[Back to Chart](#)**

# **MACHINING**

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**CNC Machine Operator - Classroom Installed – 950-M01**

**CNC Machine Operator (HAAS) – 95-M02 HAAS**

**[Back to Chart](#)**

# **PRINCIPLES OF CNC MACHINING**

---

**CNC – CN101**

**Tooling – TL101**

**Grinding – PE203**

**Tooling for Grinding – TL204**

**Coolants and Oils – PT202**

**Work Holding – PT201**

**Gear Manufacturing – PT404**

**Tooling for Tapping – TL307**

**Turning – PE101**

**Machining Centers – PE102**

**Tooling for Machining Centers – TL203**

**Tooling for Turning Centers – TL202**

**FANUC CNC Control – CN102**

[\*\*Back to Chart\*\*](#)

# **MATERIALS**

---

**Ferrous Metals – ML201**

**Non-Ferrous Metals – ML202**

**Heat Treatment – ML203**

**Plastics – ML204**

**Composites – ML205**

**Ceramics – ML206**

**[Back to Chart](#)**



# **MECHANICAL**

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**Mechanical Drives 1 Learning System (Short Bench) – 950-ME1SB**

**Portable Mechanical Drives 1 Learning System – 990-ME1**

**[Back to Chart](#)**

# **MECHANICAL**

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**Mechanical Drives 2 Learning System – 95-ME2**

**Portable Mechanical Drives 2 – 99-ME2M**

**[Back to Chart](#)**

# MECHANICAL

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**Vibration Analysis System – 95-ME5-A**

**Vibration Analysis System – 95-ME5-AI**

**[Back to Chart](#)**

# **MECHANICAL**

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**Mechanical Drives 3 Learning System – 95-ME3**

**Portable Mechanical Drives 3 – 99-ME3M**

**[Back to Chart](#)**

# **MECHANICAL**

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**Floor-Standing Belt Conveyor Learning System – 95-ME4-D**

**Machine Tool Chip Conveyor Learning System – 95-ME4-E**

**[Back to Chart](#)**

# **MECHANICAL**

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**Roller-Pack Machine Tool Axis Learning System – 95-ME4-A**

**Plain Bearing Machine Tool Axis Learning System – 95-ME4-B**

**[Back to Chart](#)**

# **MECHANICAL**

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**Turbine Pump Learning System – 95-PM1-B**

**Diaphragm Pump Learning System – 95-PM1-C**

**Peristaltic Pump Learning System – 95-PM1-D**

**Piston Pump Learning System – 95-PM1-E**

**Gear Pump Learning System – 95-PM1-F**

**Magnetic Pump Learning System – 95-PM1-G**

**Centrifugal Pump with Stuffing Box Learning System – 95-PM1-H**

[\*\*Back to Chart\*\*](#)

# **SAFETY**

---

**Safety Practices & Regulations Multimedia – SA101**

**Personal Protective Equipment (PPE) Multimedia – SA102**

**Hazardous Communication Multimedia – SA103**

**Confined Spaces Multimedia – SA104**

**Lockout / Tagout Multimedia – SA105**

**Accident Response Multimedia – SA106**

**Overhead Crane Safety Multimedia – SA206**

[\*\*Back to Chart\*\*](#)



# **WORKPLACE EFFECTIVENESS**

---

**Principles of Advanced Manufacturing – AM101**

**Mathematics – MA101**

**Trigonometry – MA304**

**Communication Skills Multimedia – PD101**

**Conflict Resolution Multimedia – PD102**

**Working in Groups Multimedia – PD103**

**Team Concepts – WX11109**

**Product Design – WX11109**

**Business Presentations 1 – WX11109**

**[Back to Chart](#)**

# LEAN MANUFACTURING

---

**Lean Overview and Workplace Multimedia – LM100**

**Introduction to Lean Multimedia – LM101**

**5S – LM102**

**Total Productive Maintenance Multimedia – LM103**

**Poka-Yoke Multimedia – LM104**

**Lean Theory Multimedia – LM203**

**Lean Process Flow Multimedia – LM204**

**Visual Workplace Multimedia – LM205**

**Standardized Work Multimedia – LM206**

**Kaizen Multimedia – LM307**

**Value Stream Mapping Multimedia – LM308**

**Set-Up Reduction – LM409**

[\*\*Back to Chart\*\*](#)