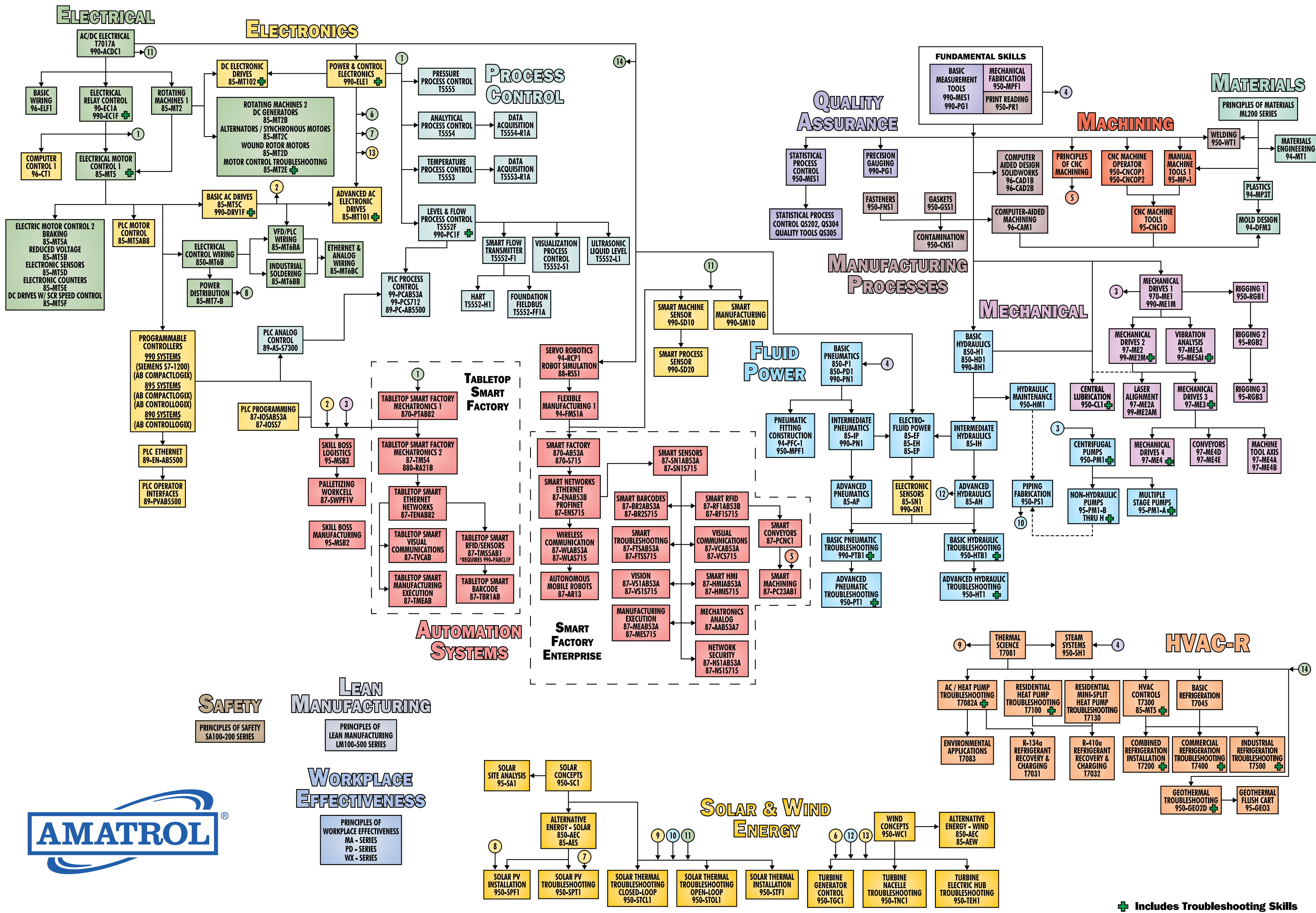


ADVANCED TECHNICAL SKILLS MAP



+ Includes Troubleshooting Skills

ELECTRICAL

AC/DC Electrical Learning System – T7017A

Portable AC/DC Electrical Learning System – 990-ACDC1

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ELECTRICAL

Electric Relay Control Unit – 90-EC1A

Portable Electrical Relay Control Troubleshooting Learning System – 990-EC1F

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ELECTRICAL

Motor Braking Learning System – 85-MT5A

Reduced Voltage Starting Learning System – 85-MT5B

Electronic Sensors Learning System – 85-MT5D

Electronic Counter Learning System – 85-MT5E

SCR Speed Control Learning System – 85-MT5F

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ELECTRICAL

DC Generators Learning System – 85-MT2B

Alternators/Synchronous Motors Learning System – 85-MT2C

Wound Rotor Motor Learning System – 85-MT2D

Electric Motor Troubleshooting Learning System – 85-MT2E

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ELECTRONICS

Variable Frequency AC Drive – 85-MT5C

Portable AC Motor Drive Troubleshooting Learning System – 990-DRV1F

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ELECTRONICS

Portable PLC Troubleshooting Learning System - Siemens S71200 (990-PS712F)

Portable PLC Troubleshooting Learning System - AB CompactLogix L16 (990-PAB53AF)

Smart Controls Troubleshooting System - (895-AB1)

PLC Troubleshooting Learning System - AB ControlLogix (890-AB5500)

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ELECTRONICS

PLC I/O Simulator Learning System (CompactLogix) – 87-IOSAB53A

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

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ELECTRONICS

Electronic Sensors Learning System - 85-SN1

Portable Electronic Sensor Training System - 990-SN1

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PROCESS CONTROL

Level and Flow Process Control Troubleshooting Learning System – T5552F

Portable Process Control Troubleshooting Learning System - Level & Flow – 990-PC1F

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AUTOMATION SYSTEMS

Tabletop Smart Factory

Tabletop Mechatronics Learning System – 870-PTAB82

Servo Robot Station - Tabletop Mechatronics – 87-TMS4
Pegasus II Robotic Learning System – 880-RA21B

Tabletop Smart Ethernet Networks – 87-TENAB82

Tabletop Smart Visual Communications – 87-TVCAB

Tabletop Smart RFID/Sensors – 87-TMS5AB1

Tabletop Smart Manufacturing Execution – 87-TMEAB

Tabletop Smart Barcode – 87-TBR1AB

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AUTOMATION SYSTEMS

Robotics and Computer Programming 1 Learning System – 94-RCP1

Pegasus Robotics Simulation Learning System – 88-RSS1

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AUTOMATION SYSTEMS

Smart Factory Enterprise

Mechatronics Learning System - AB CompactLogix L16 – 870-AB53A
- Siemens S7-1500 – 870-S715

Smart Networks - Ethernet – 87-ENAB53B
- Profinet – 87-ENS715

Smart Sensor Stations – 87-SN_AB53A
(1-4, 6-7, & 9) – 87-SN_S715

Smart Barcodes – 87-BR2AB53A
– 87-BR2S715

Smart RFID – 87-RF1AB53A
– 87-RF1S715

Smart Troubleshooting – 87-FTSAB53A
– 87-FTSS715

Visual Communications – 87-VCAB53A
– 87-VCS715

Wireless Communications – 87-WLAB53A
– 87-WLS715

Smart HMI – 87-HMIAB53A
– 87-HMIS715

Vision – 87-VS1AB53A
– 87-VS1S715

Mechatronics Analog – 87-AAB53A7
– 87-AS-S7-1

Manufacturing Execution – 87-MEAB53A
– 87-MES715

Network Security – 87-NS1AB53A
– 87-NS1S715

Autonomous Mobile Robots – 87-AR13

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AUTOMATION SYSTEMS

Smart Sensor Stations

**Smart Factory Pneumatics/Vacuum Sensor Learning Systems – 87-SN1AB53A
– 87-SN1S715**

**Smart Factory Ultrasonic Sensor Learning Systems – 87-SN2AB53A
– 87-SN2S715**

**Smart Factory Photoeye Sensor Learning Systems – 87-SN3AB53A
– 87-SN3S715**

**Mechatronics Smart Device 4 Learning System - Stack Light – 87-SN4AB53A
– 87-SN4S715**

**Smart Factory Sensor 6 Learning Systems - Electrical Current – 87-SN6AB53A
– 87-SN6S715**

**Smart Factory Analog Position Learning System – 87-SN7AB53A
– 87-SN7S715**

**Smart Factory Sensor 9 Learning Systems - Analog Pressure – 87-SN9AB53A
– 87-SN9S715**

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QUALITY ASSURANCE

Portable Measurement Tools Learning System – 990-MES1

Portable Precision Gauging – 990-PG1

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QUALITY ASSURANCE

Statistical Process Control – QS202

Statistical Process Control – QS304

Quality Tools – QS305

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MANUFACTURING PROCESSES

Computer Aided Design 1 - SolidWorks – 96-CAD1B

Computer Aided Design 2 - SolidWorks – 96-CAD2B

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FLUID POWER

Basic Pneumatics Learning System – 850-P1

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

Portable Pneumatics Learning System – 990-PN1

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FLUID POWER

Pneumatic Fitting Construction Learning System – 94-PFC-1

Mechanical Fabrication 1 Learning System – 950-MPF1

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FLUID POWER

Intermediate Pneumatics Learning System – 85-IP

Portable Pneumatics Learning System – 990-PN1

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FLUID POWER

Electro-Fluid Power Learning System – 85-EF

Electro-Hydraulics Learning System – 85-EH

Electro-Pneumatics Learning System – 85-EP

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FLUID POWER

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

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

Portable Basic Hydraulics Learning System – 990-BH1

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MACHINING

CNC Machine Operator Program - FANUC Based Interface – 950-CNCOP1

CNC Machine Operator Program - HAAS Based Interface – 950-CNCOP2

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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

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MATERIALS

Ferrous Metals – ML201

Non-Ferrous Metals – ML202

Heat Treatment – ML203

Plastics – ML204

Composites – ML205

Ceramics – ML206

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MECHANICAL

Mechanical Drives 1 Learning System – 970-ME1

Portable Mechanical Drives 1 Learning System – 990-ME1M

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MECHANICAL

Mechanical Drives 2 Learning System – 97-ME2

Portable Mechanical Drives 2 – 99-ME2M

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MECHANICAL

Predictive Maintenance Vibration Analysis Learning System – 97-ME5A

Vibration Analysis Learning System – 95-ME5AI

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MECHANICAL

Floor-Standing Belt Conveyor Learning System – 97-ME4D

Machine Tool Chip Conveyor Learning System – 97-ME4E

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MECHANICAL

Roller Pack Machine Tool Axis Learning System – 97-ME4A

Plain Bearing Machine Tool Axis Learning System – 97-ME4B

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FLUID POWER

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

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SOLAR & WIND ENERGY

Alternative Energy Learning System - Wind and Solar – 850-AEC

Alternative Energy Learning System - Solar – 850-AES

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SOLAR & WIND ENERGY

Alternative Energy Learning System - Wind and Solar – 850-AEC

Alternative Energy Learning System - Wind – 850-AEW

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