On-Line Industrial Maintenance Technician Multi-Craft Training Program Summary

INTRODUCTION - $60, 5 HRS
- REA5 – Study Skills
- MPR1 - Maintenance Principles
- TRB1 – Maintenance Troubleshooting Procedures

BASIC MATH - $80, 8 HRS
- MAT1 – Whole Numbers
- MAT2 – Fractions
- MAT3 – Decimals
- MAT4 – Algebra

BASIC MECHANICS - $187, 20 HRS
- TPC301 Basic Mechanics

PRINT READING - $80, 8 HRS
- PRT1 – Print Reading: Orthographic Projection
- PRT2 – Print Reading: Format & Dimension
- PRT3 – Print Reading: Types & Symbols
- PRT4 – Thread Specifications

READING SCHEMATICS & SYMBOLS - $187, 20 HRS
- TPC102 Reading Schematics & Symbols

SAFETY & HEALTH - $140, 14 HRS
- PPE7 - Personal Protective Equipment: Don’t Start Work Without It
- LOT9 - Lockout/Tagout: Lightning in A Bottle
- ELE5 - Electrical Safety: Beware the Bite
- ELE0 - ArcFlash: Live to Tell
- MAC0 - Machine Guarding: Safeguarding Your Future
- HAZ2 - HazCom: In Sync with GHS
- CHE5 - Chemical Handling: Basic Principles

INDUSTRIAL SAFETY & HEALTH - $187, 24 HRS
- TPC109 Industrial Safety & Health

OSHA 10 HOUR GENERAL INDUSTRY - $150, 10 HRS
- OSHA 10 HR General Industry

LUBRICATION - $80, 8 HRS
- MLU1 – Lube Oil: Types, Properties & Handling
- MLU2 – Lube Oil: Equipment & Procedures
- MLU3 – Lube Grease: Types, Application & Equip.
- INS9 – Lubrication System Inspection

DRIVE COMPONENTS - $200, 20 HRS
- MDR1-Industrial Drives: Belt Drives
- MDR2-Industrial Drives: Chain Drives
- CDP1-Industrial Drives: Complete Drive Package
- INS7- Operator Inspection: Belt Drive, Chain Drive & Gear Box Inspection
- EDS1 – Industrial Drives: Enclosed Drive System
- CBR1 – Clutches & Brakes: Types, Principles & Functions
- CBR2 – Clutches & Brakes Troubleshooting
- INS8 – Operator Insp.: Clutch & Brake Inspection
- GGS1 – Industrial Drives: Gears and Gear Systems
- SJC1 – Industrial Drives: Shaft and Coupling Devices

BEARINGS - $90, 6 HRS
- BRG1 – Industrial Bearings: Application & Technology
- BRG2 – Bearings: Maintenance & Installation
- BRG3 – Industrial Bearings: Troubleshooting

PIPING SYSTEMS - $187, 20 HRS
- TPC306 Piping Systems

VALVES - $80, 8 HRS
- CVA1 - Control Valves & Actuators: Basics & Functions
- CVA2 - Control Valves: Types and Designs
- CVA3 - Control Valves: Fundamentals & Selection
- CVA4 - Control Valves: Sizing & Installation

PNEUMATICS - $180, 18 HRS
- PNM1 – The Power of Compressed Air
- PNM2 – The Pneumatic Circuit
- PNM3 – Processing Air
- PNM4 – Using Compressed Air
- PNM5 – Pneumatic Control Valves
- PNM6 – Working Safely w/ Pneumatic Systems
- PNM7 – Pneumatic System Maintenance
- PNM8 – System Troubleshooting
- INS1 – Pneumatic System Inspection

HYDRAULICS - $260, 26 HRS
- IDH1 – Ind. Hydraulics: Principles & Application
- IDH2 – Ind. Hydraulics: Types & Concepts
- IDH3 – Hydraulics: Functions & Operating Principles
- IDH4 – Hydraulics: Maintenance & Troubleshooting
- HDL1 - Harnessing Hydraulic Power
- HDL2 – The Hydraulic Circuit
- HDL3 – Hydraulic Pumps & Actuators
- HDL4 – Hydraulic Control Valves
- HDL5 – Hydraulic Fluid
- HDL6 – Hydraulic System Safety and Maintenance
- HDL7 – Hydraulic Systems Troubleshooting
- HPS1 – Hydraulic Power Systems: Identification & Operation
- HPS2 – Hydraulic Power Systems Troubleshooting

MEASUREMENT / INSTRUMENTATION - $80, 8 HRS
- PME1 – Temperature Measurement
- PME3 – Pressure Measurement
- PME5 – Level Measurement: Measurement & Gages
- PME7 – Flow Measurement

**BASIC ELECTRICITY / ELECTRICAL MEASUREMENTS** - $160, 16 HRS
- ELS1 – Industrial Electricity Basic Principles
- ACDC1 – Current
- ACDC2 – Voltage
- ACDC3 – Resistance
- ACDC4 – Ohm’s Law
- ACDC5 – Magnetism
- ACDC6 – Electrical Measurements
- ACDC10 – AC Measurements

**ELECTRICAL MEASURING INSTRUMENTS** - $187, 20 HRS
- TPC204.1 – Electrical Measuring Instruments

**DC CIRCUITS / FUNDAMENTALS** - $80, 8 HRS
- ACDC7 – DC Circuits
- ADC2 – Ohm’s Law & DC Circuits
- ADC3 – Electronic Components and Magnetism
- ADC4 – Electronic Schematics and Circuit Analysis

**AC CIRCUITS / TRANSFORMERS** - $140, 14 HRS
- ELS2 – Industrial Electricity: Alternating Current
- ELS3 – Industrial Electricity: Conductors
- ACDC8 – Inductance & Capacitance
- ACDC11 – Capacitive Circuits
- ACDC12 – Inductive Circuits
- ACDC 13 – Transformers
- ACDC 14 – Tuned Circuits

**MOTOR DRIVES** - $140, 14 HRS
- MTD1 – Motor Drive Identification
- MTD2 – Open and Closed Loop Systems
- MTD3 – Variable Speed AC Drives
- MTD4 – Servo & Stepper Motors
- MTD5 – AC Motor Operation
- MTD6 – AC Drive Selection and Setup
- INS6 – Operator Inspection: Motor Drive System Inspection

**AC/DC EQUIPMENT & CONTROLS** - $140, 14 HRS
- ELS6 – Industrial Electricity: Generators and Motors
- ELS 7 – AC Motor Control and Current Measurement
- DCM1 – DC Motors: Basics and Parts of DC Motors
- DCM2 – DC Motors: Wiring Diagrams and Troubleshooting
- DCC1 – DC Motor Controllers – Controller Function and Operation
- DCC2 – DC Motor Controllers – Maintenance and Troubleshooting
- INS5 – Operator Inspection: Electrical Equipment Control System Inspection

**MOTOR CONTROLS** - $180, 18 HRS
- MTR1 – Basic Motor Controls & Relays
- MTR2 – Overload Protection Devices
- MTR3 – Motor Controls: Time Delay Relays
- MTR4 – Motor Controls: Schematics/Symbols
- MTR5 – Motor Control: Schematics and Wiring Diagrams
- MTR6 – Motor Controls: Starting Methods for Squirrel Cage Motors
- MTR7 – Wye-Delta, Synchronous, & Wound Rotor Controls
- MTR8 – Motor Controls: Installing/Troubleshooting
- TRB3 – Troubleshooting: Motors and Motor Controls

**BASIC ELECTRONICS** - $120, 12 HRS
- BEC1 – Basic Electronic Components: Types and Diagrams
- BEC2 – Basic Electronic Controls and Applications
- BEC3 – Basic Electronic Operation and Troubleshooting
- ECI1 – Electronic Circuits: Basic Principles
- ECI2 – Electronic Circuits: Characteristics and Operation
- ECI3 – Electronic Circuits: Logic Fundamentals, Types & Application

**PROGRAMMABLE LOGIC CONTROLLERS (PLCs)** - $160, 16 HRS
- PLC1 – Fundamentals
- PLC2 – Programming
- PLC3 – Inputs and Outputs
- PLC4 – Troubleshooting
- PLC5 – Communications & Advanced Programming
- RSX1 – Configuring Hardware and Software
- RSX2 – Programming and Editing
- RSX3 – Testing / Troubleshooting Functions

Total Hours: 355 Total Cost: $3,555

Prices are subject to change.
Once assigned, courses/modules (even if unused) are non-transferable and non-refundable.

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