On-Line Industrial Maintenance Technician Mechanical 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

**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 TPC102** - $187, 20 HRS

**SAFETY & HEALTH** - $140, 14 HRS
- PPE7 - Personal Protective Equipment: Don’t Start Work Without It
- LOT9 - Lockout/Tagout: Lightening in A Bottle
- ELE5 - Electrical Safety: Beware the Bite
- MAC0 - Machine Guarding: Safeguarding Your Future
- HA22 - HazCom: In Sync with GHS
- CHE5 - Chemical Handling: Basic Principles
- ELEO – ArcFlash: Live to Tell

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

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

**RIGGING** - $40, 4 HRS
- RIG1 - Rigging: Equipment Basics
- RIG2 - Rigging: Operations

**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 Inspection: Clutch & Brake Inspection
- GGS1 - Industrial Drives: Gears and Gear Systems
- SJC1 - Industrial Drives: Shaft and Coupling Devices

**SEALS** - $60, 6 HRS
- MPS1 - Industrial Seals: Types, Materials & Properties
- MPS2 - Gaskets & Packing: Inspection & Installation
- MPS3 - Mechanical Face Seals: Troubleshooting

**PUMPS** - $120, 12 HRS
- PUM1 - Centrifugal: Pumps: Design & Function
- PUM2 - Centrifugal: System Characteristics / Selection
- PUM3 - Centrifugal: Operation & Maintenance
- PUM4 - Centrifugal: Troubleshooting & Disassembly
- PUM5 - Centrifugal: Reassembly & Installation
- TRB4 - Maintenance Troubleshooting: Pumps & Compressors

**BEARINGS** - $60, 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

WELDING - $187, 12 HRS
- TPC417 Welding Principles

BASIC ELECTRICITY - $160, 16 HRS
- ELS1 – Industrial Electricity Basic Principles
- ACDC1 – Current
- ACDC2 – Voltage
- ACDC3 – Resistance
- ACDC4 – Ohm’s Law
- ACDC5 – Magnetism
- ACDC6 – Electrical Measurements
- ACDC7 – DC Circuits

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

Total Hours: 253
Total Cost: $2,578

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

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