# Mechanical Maintenance Technician (online)

<table>
<thead>
<tr>
<th>INTRODUCTION - $60, 6 HRS</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>REA5 – Study Skills</td>
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<tr>
<td>MPR1 – Maintenance Principles</td>
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<tr>
<td>TRB1 – Maintenance Troubleshooting: Process</td>
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<thead>
<tr>
<th>BASIC MATH - $80, 8 HRS</th>
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<tbody>
<tr>
<td>MAT1 – Whole Numbers</td>
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<tr>
<td>MAT2 – Fractions</td>
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<tr>
<td>MAT3 – Decimals</td>
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<tr>
<td>MAT4 – Algebra</td>
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<tr>
<th>PRINT READING - $80, 8 HRS</th>
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<tbody>
<tr>
<td>PRT1 – Print Reading: Orthographic Projection</td>
<td>2</td>
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<tr>
<td>PRT2 – Print Reading: Format &amp; Dimension</td>
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<tr>
<td>PRT3 – Print Reading: Types &amp; Symbols</td>
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<td>PRT4 – Thread Specifications</td>
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<thead>
<tr>
<th>READING SCHEMATICS &amp; SYMBOLS - $187, 20 HRS</th>
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<tbody>
<tr>
<td>TPC 102 – Reading Schematics and Symbols</td>
<td>20</td>
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<tr>
<th>SAFETY &amp; HEALTH - $140, 14 HRS</th>
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<tbody>
<tr>
<td>PPE7 – Personal Protective Equipment: Don’t Start Work Without It</td>
<td>2</td>
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<tr>
<td>LOT9 – Lockout / Tagout: Lightening in A Bottle</td>
<td>2</td>
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<tr>
<td>ELE5 – Electrical Safety: Beware the Bite</td>
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<tr>
<td>ELE0 – ArcFlash: Live to Tell</td>
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<tr>
<td>MAC0 – Machine Guarding: Safeguarding Your Future</td>
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<tr>
<td>HAZ2 – HazCom: In Sync with GHS</td>
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<tr>
<td>CHE5 – Chemical Handling: Basic Principles</td>
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<tr>
<th>INDUSTRIAL SAFETY &amp; HEALTH - $187, 24 HRS</th>
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<tr>
<td>TPC 109 – Industrial Safety &amp; Health</td>
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<tr>
<th>OSHA 10 HOUR GENERAL INDUSTRY - $150, 10 HRS</th>
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<tr>
<td>OSHA 10 HR General Industry</td>
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<tr>
<th>RIGGING - $40, 4 HRS</th>
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<tr>
<td>RIG1 – Rigging: Equipment Basics</td>
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<tr>
<td>RIG2 – Rigging: Operations</td>
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<th>LUBRICATION - $80, 8 HRS</th>
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<tbody>
<tr>
<td>MLU1 – Machinery Lubrication: Lube Oil Types, Properties, &amp; Handling</td>
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<tr>
<td>MLU2 – Machinery Lubrication: Lube Oil Equipment &amp; Procedures</td>
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<tr>
<td>MLU3 – Machinery Lubrication: Lube Grease Types, Application, &amp; Equipment</td>
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<tr>
<td>INS9 – Operator Inspection: Lubrication System Inspection</td>
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<tr>
<th>DRIVE COMPONENTS - $200, 20 HRS</th>
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<tr>
<td>MDR1 – Industrial Drives: Belt Drives</td>
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<tr>
<td>MDR2 – Industrial Drives: Chain Drives</td>
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<tr>
<td>CDP1 – Industrial Drives: Complete Drive Package</td>
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<tr>
<td>INS7 – Operator Inspection: Belt Drive, Chain Drive &amp; Gear Box Inspection</td>
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<tr>
<td>EDS1 – Industrial Drives: Enclosed Drive System</td>
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<tr>
<td>CBR1 – Clutches &amp; Brakes: Types, Principles &amp; Functions</td>
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<tr>
<td>CBR2 – Clutches &amp; Brakes Troubleshooting</td>
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<td>INS8 – Operator Inspection: Clutch &amp; Brake Inspection</td>
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<tr>
<td>GGS1</td>
<td>Industrial Drives: Gears and Gear Systems</td>
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<tr>
<td>SJC1</td>
<td>Industrial Drives: Shaft and Coupling Devices</td>
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<tr>
<td><strong>SEALS</strong></td>
<td>$60, 6 HRS</td>
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<tr>
<td>MPS1</td>
<td>Industrial Seals: Types, Materials, &amp; Properties</td>
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<tr>
<td>MPS2</td>
<td>Industrial Seals: Gaskets &amp; Packing Inspection &amp; Installation</td>
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<tr>
<td>MPS3</td>
<td>Industrial Seals: Mechanical Face Seals Troubleshooting</td>
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<tr>
<td><strong>PUMPS</strong></td>
<td>$120, 12 HRS</td>
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<tr>
<td>PUM1</td>
<td>Centrifugal: Pumps: Design &amp; Function</td>
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<tr>
<td>PUM2</td>
<td>Centrifugal: System Characteristics / Selection</td>
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<tr>
<td>PUM3</td>
<td>Centrifugal: Operation &amp; Maintenance</td>
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<tr>
<td>PUM4</td>
<td>Centrifugal: Troubleshooting &amp; Disassembly</td>
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<tr>
<td>PUM5</td>
<td>Centrifugal: Reassembly &amp; Installation</td>
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<td>TRB4</td>
<td>Maint. Troubleshooting: Pumps &amp; Compressors</td>
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<td><strong>BEARINGS</strong></td>
<td>$60, 16 HRS</td>
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<tr>
<td>BRG1</td>
<td>Industrial Bearings: Application &amp; Technology</td>
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<td>BRG2</td>
<td>Bearings: Maintenance &amp; Installation</td>
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<td>BRG3</td>
<td>Industrial Bearings: Troubleshooting</td>
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<td><strong>PIPING SYSTEMS</strong></td>
<td>$187, 20 HRS</td>
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<tr>
<td>TPC 306</td>
<td>Piping Systems</td>
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<td><strong>VALVES</strong></td>
<td>$240, 16 HRS</td>
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<td>CVA1</td>
<td>Control Valves &amp; Actuators: Basics &amp; Functions</td>
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<td>CVA2</td>
<td>Control Valves: Types and Designs</td>
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<td>CVA3</td>
<td>Control Valves: Fundamentals &amp; Selection</td>
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<td>CVA4</td>
<td>Control Valves: Sizing &amp; Installation</td>
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<tr>
<td>FVB1</td>
<td>Shutoff Valve Designs &amp; Applications</td>
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<tr>
<td>FVB2</td>
<td>Selecting Shutoff Valves &amp; Accessories</td>
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<td>FVB3</td>
<td>Installing Shutoff Valves</td>
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<td>FVB4</td>
<td>Maintaining Shutoff Valves</td>
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<tr>
<td><strong>PNEUMATICS</strong></td>
<td>$180, 18 HRS</td>
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<tr>
<td>PNM1</td>
<td>The Power of Compressed Air</td>
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<td>PNM2</td>
<td>The Pneumatic Circuit</td>
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<td>PNM3</td>
<td>Processing Air</td>
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<td>PNM4</td>
<td>Using Compressed Air</td>
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<td>PNM5</td>
<td>Pneumatic Control Valves</td>
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<td>PNM6</td>
<td>Working Safely w/ Pneumatic Systems</td>
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<td>PNM7</td>
<td>Pneumatic System Maintenance</td>
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<td>PNM8</td>
<td>System Troubleshooting</td>
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<td>INS1</td>
<td>Operator Inspection: Pneumatic System Inspection</td>
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<td><strong>HYDRAULICS</strong></td>
<td>$260, 26 HRS</td>
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<tr>
<td>IDH1</td>
<td>Ind. Hydraulics: Principles &amp; Application</td>
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<td>IDH2</td>
<td>Ind. Hydraulics: Types &amp; Concepts</td>
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<td>IDH3</td>
<td>Ind. Hydraulics: Functions &amp; Operating Principles</td>
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<td>IDH4</td>
<td>Ind. Hydraulics: Maintenance &amp; Troubleshooting</td>
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<tr>
<td>HDL1</td>
<td>Harnessing Hydraulic Power</td>
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<td>HDL2</td>
<td>The Hydraulic Circuit</td>
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<td>HDL3</td>
<td>Hydraulic Pumps &amp; Actuators</td>
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<td>HDL4</td>
<td>Hydraulic Control Valves</td>
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<td>HDL5</td>
<td>Hydraulic Fluid</td>
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<td>HDL6</td>
<td>Hydraulic System Safety and Maintenance</td>
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<td>HDL7</td>
<td>Hydraulic Systems Troubleshooting</td>
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<td>HPS1</td>
<td>Hydraulic Power Systems: Identification &amp; Operation</td>
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<td>HPS2</td>
<td>Hydraulic Power Systems Troubleshooting</td>
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<tr>
<td><strong>WELDING</strong></td>
<td>$187, 12 HRS</td>
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<tr>
<th>Course Code</th>
<th>Course Description</th>
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<tbody>
<tr>
<td>TPC 417</td>
<td>TPC 417 – Welding Principles</td>
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<td><strong>BASIC ELECTRICITY - $160, 16 HRS</strong></td>
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<tr>
<td>ELS1</td>
<td>ELS1 – Industrial Electricity Basic Principles</td>
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<tr>
<td>ACDC1</td>
<td>ACDC1 – AC/DC Theory: Current</td>
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<td>ACDC2 – AC/DC Theory: Voltage</td>
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<td>ACDC3 – AC/DC Theory: Resistance</td>
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<td>ACDC4 – AC/DC Theory: Ohm’s Law</td>
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<td>ACDC5 – AC/DC Theory: Magnetism</td>
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<td>ACDC6 – AC/DC Theory: Electrical Measurements</td>
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<td>ACDC7</td>
<td>ACDC7 – AC/DC Theory: DC Circuits</td>
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<td><strong>MEASUREMENT / INSTRUMENTATION - $120, 8 HRS</strong></td>
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<tr>
<td>PME1</td>
<td>PME1 – Process Measurement Temperature 1: Thermometers &amp; Thermocouples</td>
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<tr>
<td>PME3</td>
<td>PME3 – Process Measurement Pressure 1: Manometers &amp; Gages</td>
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<td>PME5</td>
<td>PME5 – Process Measurement Level 1: Measurement &amp; Gages</td>
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<td>PME7</td>
<td>PME7 – Process Measurement Flow 1: Measurement Overview</td>
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Total Hours: 262 Total Cost: $2,778 Prices Subject to Change

**Once assigned, courses/modules (even if unused) are non-transferable and non-refundable.**

For more information or to register, please contact:
Kent State University Regional Workforce Development Terry Theis at 330.308.7448 or ttheis1@kent.edu

12/5/2023