BUILD CAPABILITY AND HELP IMPROVE UPTIME WITH OUR UPDATED MAINTENANCE E-LEARNING CURRICULUM

Deliver mobile ready training with these 76 refreshed courses built in HTML5.

10-PART SERIES BASIC MACHINE TECHNOLOGY - UPDATED

**MCT001 | BASIC MACHINE TECHNOLOGY: SAFETY PROCEDURES & GUIDELINES**
Teaches the safety procedures necessary to protect the machine operator, equipment, and coworkers.
Formats available: interactive online course.

**MCT002 | BASIC MACHINE TECHNOLOGY: HAND TOOLS & THEIR USE**
Identifies the various hand tools commonly found in a machine shop and demonstrates how to use them properly.
Formats available: interactive online course.

**MCT003 | BASIC MACHINE TECHNOLOGY: THE USE OF MEASURING TOOLS**
Identifies various measuring tools and demonstrates their proper use.
Formats available: interactive online course.

**MCT004 | BASIC MACHINE TECHNOLOGY: THE VERTICAL MILLING MACHINE – PARTS & OPERATION**
Teaches students how to control and operate the vertical milling machine properly and safely.
Formats available: interactive online course.

**MCT005 | BASIC MACHINE TECHNOLOGY: THE VERNIER CALIPER & VERNIER PROTRACTOR**
Identifies the parts and uses of the Vernier caliper and protractor.
Formats available: interactive online course.

**MCT006 | BASIC MACHINE TECHNOLOGY: THE PEDESTAL GRINDER**
Teaches students how to set up and operate a pedestal grinder safely.
Formats available: interactive online course.

**MCT007 | BASIC MACHINE TECHNOLOGY: SHARPENING DRILL BITS BY HAND OR THE DRILL PRESS**
Teaches students how to use a pedestal grinder and a drill point grinding machine to sharpen drill bits accurately.
Formats available: interactive online course.

**MCT008 | BASIC MACHINE TECHNOLOGY: DRILL PRESSES – SENSITIVE & RADIAL ARM**
Identifies the basic parts of the sensitive and radial arm drill presses and their functions.
Formats available: interactive online course.

**MCT009 | BASIC MACHINE TECHNOLOGY: DRILL PRESS OPERATIONS**
Teaches students how to safely use a drill press and several different drilling operations performed with it.
Formats available: interactive online course.

**MCT010 | BASIC MACHINE TECHNOLOGY: VERTICAL BAND SAWS – PARTS, ACCESSORIES & OPERATION**
Teaches the parts of the band saw, the accessories a machinist may use on the machine, and basic operational procedures.
Formats available: interactive online course.
7-PART SERIES  HYDRAULICS - UPDATED

HDL001 | HYDRAULICS: HARNESING HYDRAULIC POWER
Helps students appreciate the power of fluid and understand how fluids both exert pressure to support loads and flow to move loads.
Formats available: interactive online course.

HDL002 | HYDRAULICS: THE HYDRAULIC CIRCUIT
Teaches students the function and operation of various components of hydraulic circuits and how they work together.
Formats available: interactive online course.

HDL003 | HYDRAULICS: PUMPS & ACTUATORS
Teaches students the operation and function of pumps and actuators and their relationship within the hydraulic system.
Formats available: interactive online course.

HDL004 | HYDRAULICS: CONTROL VALVES
Teaches students how various valves function and affect system operation.
Formats available: interactive online course.

HDL005 | HYDRAULICS: HYDRAULIC FLUID
Details the components that store, conduct, and maintain hydraulic fluid.
Formats available: interactive online course.

HDL006 | HYDRAULICS: HYDRAULIC SYSTEMS SAFETY & MAINTENANCE
Teaches safety and maintenance for hydraulic systems.
Formats available: interactive online course.

HDL007 | HYDRAULICS: HYDRAULIC SYSTEM TROUBLESHOOTING
Covers troubleshooting hydraulic systems.
Formats available: interactive online course.

3-PART SERIES  INDUSTRIAL BEARINGS - UPDATED

BRG001 | INDUSTRIAL BEARINGS: APPLICATION & TECHNOLOGY
Instructs students in the application of bearings and their importance in the function of both simple and complex machines.
Formats available: interactive online course.

BRG002 | INDUSTRIAL BEARINGS: MAINTENANCE & INSTALLATION
Teaches the basic installation and care of plain and roller-element bearings, provides examples of various types of fittings for installation, explains how to check and adjust operating clearances, and more.
Formats available: interactive online course.

BRG003 | INDUSTRIAL BEARINGS: TROUBLESHOOTING
Explains the conditions affecting bearing performance, the causes and conditions leading to bearing failure, and how to inspect and identify bearing failure.
Formats available: interactive online course.

DuPont Sustainable Solutions
LEARNING & DEVELOPMENT

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MDR001 | INDUSTRIAL DRIVES:
BELT DRIVES
Teaches the importance of belt drive safety, construction materials used, and functions of each belt type.
Formats available: interactive online course.

MDR002 | INDUSTRIAL DRIVES:
CHAIN DRIVES
Presents the fundamentals of chain drive systems, including basic chain drive safety, major types of chains, chain tension, and chain drive equipment.
Formats available: interactive online course.

EDS001 | INDUSTRIAL DRIVES:
ENCLOSED DRIVE SYSTEMS
Discusses the different types of enclosed gear drives and their major components.
Formats available: interactive online course.

CDP001 | INDUSTRIAL DRIVES:
COMPLETE DRIVE PACKAGES
Goes beyond the basics of drive packages to teach fundamentals, components, troubleshooting, and more.
Formats available: interactive online course.

GGS001 | INDUSTRIAL DRIVES:
GEARS & GEAR SYSTEMS
Covers gear basics, installations, maintenance, and troubleshooting.
Formats available: interactive online course.

SJC001 | INDUSTRIAL DRIVES:
SHAFT JOINING & COUPLING DEVICES
Discusses the principles and applications of shaft joining and coupling as well as important troubleshooting strategies and remedies.
Formats available: interactive online course.

MPS001 | INDUSTRIAL SEALS:
TYPES, MATERIALS & PROPERTIES
Teaches the basics of various industrial seals and the materials used to form them.
Formats available: interactive online course.

MPS002 | INDUSTRIAL SEALS:
GASKETS & PACKINGS – INSPECTION & INSTALLATION
Teaches the basics of gasket and packing materials commonly in use as well as procedures for their installation.
Formats available: interactive online course.

MPS003 | INDUSTRIAL SEALS:
MECHANICAL FACE SEALS – TROUBLESHOOTING & INSTALLATION
Covers the various types of mechanical face seals, how to remove seals for troubleshooting, typical causes of seal failure, and more.
Formats available: interactive online course.
ELS001 | INDUSTRIAL ELECTRICITY: BASIC PRINCIPLES
Covers the principles of electrical theory, provides a general description of basic electrical currents and circuits, and more.
Formats available: interactive online course.

ELS002 | INDUSTRIAL ELECTRICITY: ALTERNATING CURRENT
Helps students understand the principles of alternating current.
Formats available: interactive online course.

ELS003 | INDUSTRIAL ELECTRICITY: CONDUCTORS
Explains the uses and types of conductors as related to industrial electricity and their parts.
Formats available: interactive online course.

ELS004 | INDUSTRIAL ELECTRICITY: WIRING
Explains basic wiring terminology and methods as outlined by the National Electrical Code.
Formats available: interactive online course.

ELS005 | INDUSTRIAL ELECTRICITY: INSTALLATION, DISTRIBUTION & LIGHTING
Demonstrates how electricity is distributed and controlled by a plant's electrical system.
Formats available: interactive online course.

ELS006 | INDUSTRIAL ELECTRICITY: GENERATORS & MOTORS
Provides an overview of the generators and motors used in industrial applications.
Formats available: interactive online course.

ELS007 | INDUSTRIAL ELECTRICITY: AC MOTOR CONTROL & CURRENT MEASUREMENT
Introduces basic AC motor controls and describes current measuring devices.
Formats available: interactive online course.
PTR001 | MECHANICAL PRINT READING: ORTHOGRAPHIC PROJECTION
Focuses on the six principle views of a blueprint, the types of lines used in the drawings and sectional views, and the differences between first and third angle projections.
Formats available: interactive online course.

PTR002 | MECHANICAL PRINT READING: DRAWING FORMAT & DIMENSIONING
Identifies the graphic description of an object, differences between metric and English sheet sizes, and explains the fields of an engineering drawing.
Formats available: interactive online course.

PTR003 | MECHANICAL PRINT READING: DRAWING TYPES & SYMBOLS
Covers various types of mechanical drawings, including layout, detail, prefix, and assembly drawings, and explains general identification and revision symbols.
Formats available: interactive online course.

PTR004 | MECHANICAL PRINT READING: THREAD SPECIFICATIONS
Explains thread features, forms, and specification notes used in mechanical prints.
Formats available: interactive online course.

MLU001 | MACHINERY LUBRICATION: LUBRICATING OIL – TYPES, PROPERTIES & HANDLING
Identifies the properties and types of oil used for lubricants and explains how to apply, work safely with, and store lubricants.
Formats available: interactive online course.

MLU002 | MACHINERY LUBRICATION: LUBRICATING OIL – EQUIPMENT & PROCEDURES
Demonstrates how to properly dispense machinery oils using typical lubrication equipment and fittings as well as perform the proper procedures for oiling crankcase, bearing, and gear machinery.
Formats available: interactive online course.

MLU003 | MACHINERY LUBRICATION: LUBRICATING GREASES – TYPES, APPLICATIONS & EQUIPMENT
Describes how to properly identify the main characteristics of various industrial greases and their properties.
Formats available: interactive online course.
MTR001 | MOTOR CONTROLS: BASIC MOTOR CONTROLS & RELAYS
Introduces basic motor controls and relays.
Formats available: interactive online course.

MTR002 | MOTOR CONTROLS: OVERLOAD RELAYS
Explains the different types of overload relays, how they work, and why they are used.
Formats available: interactive online course.

MTR003 | MOTOR CONTROLS: TIME DELAY RELAYS
Gives a comprehensive overview of these vital parts of a motor control system.
Formats available: interactive online course.

MTR004 | MOTOR CONTROLS: SCHEMATIC SYMBOLS
Helps students read and understand schematic symbols.
Formats available: interactive online course.

MTR005 | MOTOR CONTROLS: SCHEMATIC & WIRING DIAGRAMS
Teaches how to recognize the differences between schematic and wiring diagrams, determine the logic of a control circuit, and more.
Formats available: interactive online course.

MTR006 | MOTOR CONTROLS: STARTING METHODS FOR SQUIRREL CAGE MOTORS
Teaches the different types of squirrel cage motor starting methods and how to choose the appropriate one.
Formats available: interactive online course.

MTR007 | MOTOR CONTROLS: WYE-DELTA, SYNCHRONOUS & WOUND ROTOR CONTROLS
Discusses the starting of wye-delta, synchronous motors, and wound rotor motors.
Formats available: interactive online course.

MTR008 | MOTOR CONTROLS: INSTALLING & TROUBLESHOOTING CONTROL SYSTEMS
Teaches students how to correctly install control systems and follow up with effective troubleshooting techniques.
Formats available: interactive online course.
INS001 | OPERATOR INSPECTION: PNEUMATIC SYSTEM INSPECTION
Teaches students the basic inspection procedures for pneumatic systems and their components.
Formats available: interactive online course.

INS002 | OPERATOR INSPECTION: VACUUM SYSTEM INSPECTION
Teaches students the basic inspection procedures for vacuum systems and their components.
Formats available: interactive online course.

INS003 | OPERATOR INSPECTION: AIR COMPRESSION SYSTEM INSPECTION
Teaches students the basic inspection procedures for air compression systems and their components.
Formats available: interactive online course.

INS004 | OPERATOR INSPECTION: FASTENERS & EQUIPMENT STRUCTURE INSPECTION
Teaches students the basic inspection procedures for bolts, fasteners, and equipment structure.
Formats available: interactive online course.

INS005 | OPERATOR INSPECTION: ELECTRICAL EQUIPMENT CONTROL SYSTEM INSPECTION
Covers electricity and control system basics; inspection procedures for equipment main switches, control panels and external wiring, and more.
Formats available: interactive online course.

INS006 | OPERATOR INSPECTION: MOTOR DRIVE SYSTEM INSPECTION
Covers the types and function of drive units, inspection of three-phase AC induction motors, and more.
Formats available: interactive online course.

INS007 | OPERATOR INSPECTION: BELT DRIVE, CHAIN DRIVE & GEAR BOX INSPECTION
Covers the types and function of belts and gears, inspection of belt and chain transmission parts and units, and more.
Formats available: interactive online course.

INS008 | OPERATOR INSPECTION: CLUTCHES & BRAKE INSPECTION
Covers the types and function of clutches and brakes, types and function of cams and guide surfaces, and more.
Formats available: interactive online course.

INS009 | OPERATOR INSPECTION: LUBRICATION SYSTEM INSPECTION
Covers types of lubrication oils, inspection of grease packs, pumps, distribution valves, pipes, joints and bearings, and more.
Formats available: interactive online course.
### 8-PART SERIES  **PNEUMATICS - UPDATED**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Formats Available</th>
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<tbody>
<tr>
<td>PNM001</td>
<td><strong>Pneumatics: The Power of Compressed Air</strong></td>
<td>Teaches how to use energy that has been transferred from pneumatic power in the form of compressed and flowing air.</td>
<td>interactive online course.</td>
</tr>
<tr>
<td>PNM002</td>
<td><strong>Pneumatics: The Pneumatic Circuit</strong></td>
<td>Teaches that the basic function of the pneumatic system is to produce and transmit energy; even though there are slight differences in system components, they function the same.</td>
<td>interactive online course.</td>
</tr>
<tr>
<td>PNM003</td>
<td><strong>Pneumatics: Processing Air</strong></td>
<td>Introduces components that process air by compressing, storing, treating, and distributing air to the actuator.</td>
<td>interactive online course.</td>
</tr>
<tr>
<td>PNM004</td>
<td><strong>Pneumatics: Using Compressed Air</strong></td>
<td>Teaches that motion is either linear or rotary, regardless of the system used. Describes the basic structure, function, and operation of the pneumatic components that produce linear and rotary motion.</td>
<td>interactive online course.</td>
</tr>
<tr>
<td>PNM005</td>
<td><strong>Pneumatics: Pneumatic Control Valves</strong></td>
<td>Explains the function of pneumatic control valves and how they operate within a pneumatic system in order for the actuators to operate properly.</td>
<td>interactive online course.</td>
</tr>
<tr>
<td>PNM006</td>
<td><strong>Pneumatics: Working Safely with Pneumatic Systems</strong></td>
<td>Identifies the safety precautions associated with pneumatic systems and the safety rules that should be followed when working with pneumatic components.</td>
<td>interactive online course.</td>
</tr>
<tr>
<td>PNM007</td>
<td><strong>Pneumatics: Pneumatic System Maintenance</strong></td>
<td>Explains the importance of a pneumatic system pro-active maintenance program and the differences between predictive and preventive maintenance programs.</td>
<td>interactive online course.</td>
</tr>
<tr>
<td>PNM008</td>
<td><strong>Pneumatics: Troubleshooting Pneumatic Systems</strong></td>
<td>Explains how to systematically identify the problems of a pneumatic system and determine their cause.</td>
<td>interactive online course.</td>
</tr>
</tbody>
</table>
**3-PART SERIES**  **WORKPLACE MATHEMATICS - UPDATED**

**MAT001 | WORKPLACE MATHEMATICS: WHOLE NUMBERS**
Teaches the decimal system of numbers, symbols, and formats for the representation of numbers in arithmetic.
Formats available: [interactive online course](#).

**MAT002 | WORKPLACE MATHEMATICS: FRACTIONS**
Teaches how to work with fractions and decimals.
Formats available: [interactive online course](#).

**MAT003 | WORKPLACE MATHEMATICS: INTRODUCTION TO ALGEBRA**
Teaches addition, subtraction, multiplication, and division of signed numbers, algebraic representations and terms, powers and exponents, and more.
Formats available: [interactive online course](#).

**5-PART SERIES**  **WORKPLACE READING - UPDATED**

**REA001 | WORKPLACE READING: BASIC SKILLS**
Introduces students to the topic of workplace reading skills.
Formats available: [interactive online course](#).

**REA002 | WORKPLACE READING: LITERAL COMPREHENSION – MAIN IDEA**
Helps students find and understand the main idea in definition paragraphs and more.
Formats available: [interactive online course](#).

**REA003 | WORKPLACE READING: LITERAL COMPREHENSION – RELATIONSHIPS**
Helps students recognize and use classification, use comparison, recognize cause and effect, and more.
Formats available: [interactive online course](#).

**REA004 | WORKPLACE READING: INFERENCE**
Helps students learn to infer main ideas and relationships from their reading.
Formats available: [interactive online course](#).

**REA005 | WORKPLACE READING: STUDY SKILLS**
Covers problem-solving, study habits, summarization skills, and more.
Formats available: [interactive online course](#).

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