

## PowerPoint™ Presentations

*PowerPoint™ Presentations that Drive Retention of the  
Key Technical Concepts in your Curriculum*

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### Basic Foundations

- Blueprint Reading
- Reading Technical Diagrams
- Mathematics
- Measurement
- Metals
- Nonmetals
- Hand Tools
- Power Tools
- Safety and Health
- Developing Troubleshooting Skills

### Electrical Systems

- Basic Electricity and Electronics
- Batteries and DC Circuits
- Electrical Measuring Instruments
- Electrical Safety and Protection
- DC Equipment and Controls
- Single-Phase Motors
- Three-Phase Motors
- AC Control Equipment
- Electrical Troubleshooting
- Electrical Safety in the Workplace - Understanding NFPA 70E

### Mechanical Systems

- Basic Mechanics
- Lubrication
- Bearings
- Power Transmission Devices
- Pumps
- Piping Systems
- Hydraulic Equipment
- Hydraulic Systems Maintenance
- Pneumatic Equipment
- Pneumatic Systems Maintenance
- Pneumatic and Hydraulic Maintenance
- Industrial Fluidpower

### A/C & Refrigeration Technology

- The Refrigeration Cycle
- Refrigerants and Refrigerant Oils
- Compressors
- Evaporators and Metering Devices
- Condensers and Cooling Towers
- Piping
- Control Systems
- Air-Handling Systems
- System Troubleshooting
- Absorption Chillers
- Head Pumps
- Heating System Basics
- Heating System Equipment

### Ammonia Refrigeration

- Ammonia Refrigeration Basics
- Positive-Displacement Compressors
- Evaporators, Condensers, and Controls
- Purging, Piping, and Safety

### Building and Grounds Maintenance

- Introduction to Carpentry
- Constructing the Building Shell
- Finishing the Building Interior
- Structural Painting
- Flat Roof Maintenance
- Plumbing Systems Maintenance
- Locks and Key Systems
- Landscaping Maintenance

### Custodial Maintenance

- Cleaning Chemicals
- Floors and Floor Care Equipment
- Maintaining Floors and Other Surfaces
- Rest Room Care
- Carpet and Upholstery Care

**Electronic Technology**

- Semiconductors
- Power Supplies
- Amplifiers
- Oscillators
- Digital Logic Systems

**Foundations of Technology**

- Force and Motion

**General Facility Industrial Maintenance**

- Basics of Industrial Maintenance

**Instrumentation and Process Control**

- Introduction to Process Measurement and Control
- Pressure Measurement
- Force, Weight, and Motion Measurement
- Flow Measurement
- Level Measurement
- Temperature Measurement
- Analytical Instrumentation
- Final Control Elements
- Safety, Calibration, and Testing
- Working with Controllers
- How Control Loops Operate
- Data Transmission
- Computers in Process Control
- Process Instrumentation I
- Process Instrumentation II
- Introduction the Instrumentation

**Machine Shop Technology**

- Machine Shop Practice
- Machine Shop Turning Operations
- Machine Shop Shaping Operations
- Machine Shop Job Analysis
- Lathe-Turning Work Between Centers
- Lathe-Machining Work in a Chuck
- Basic Milling Procedures
- Indexed Milling Procedures
- Multiple-Machine Procedures

**Maintenance Management**

- Maintenance Organization
- Implementing Preventive Maintenance
- Controlling Maintenance Resources
- Improving Performance in Maintenance
- Effective Communication for Supervisors
- Employee Relations
- Managing a Training Program

**Material Handling Systems**

- Bulk-Handling Conveyors

**Mechanical Maintenance Applications**

- Mechanical Drive Maintenance
- Mechanical and Fluid Drive Systems
- Bearing and Shaft Seal Maintenance
- Pump Installation and Maintenance
- Maintenance Pipefitting
- Tubing and Hose System Maintenance
- Valve Maintenance and Piping System Protection

**Packaging Machinery Maintenance**

- Introduction to Packaging

**Power Plant Operations**

- How Power Plants Work
- Generating Steam in the Power Plant
- Using Steam in the Power Plant
- Waste-to-Energy Fundamentals

**Programmable Logic Controllers**

- Programmable Logic Controllers

**Rigging & Equipment Installation**

- Rigging

**Robotics**

- Introduction to Robotics

**Water & Wastewater Technology**

- Introduction to Water Technology
- Wastewater Treatment Processes
- Maintaining Wastewater Equipment

**Welding Technology**

- Blueprint Reading for Welders
- Welding Principles
- Oxyfuel Operations
- Arc Welding Operations