



## Instructor Support Materials: PowerPoints™

TPC's PowerPoint presentations provide you with all of the technical illustrations, photos, and charts from our industry-validated manuals. These sharp, clean images will help students visualize key concepts and ideas addressed within each book. Every image corresponds to a matching figure number in the manual and each slide is numbered, identifying its place within the presentation.

The PowerPoint presentations are versatile and adaptable. You can easily customize a presentation to your lectures and discussions. We also offer additional Instructor Support Materials for our courses, which can accompany the PowerPoint presentation to aid in teaching and further enhancing learning.

### Fundamentals

- Reading Blueprints
- Reading Schematics and Symbols
- Mathematics in the Plant
- Making Measurements
- Metals in the Plant
- Nonmetals in the Plant
- Hand Tools
- Portable Power Tools
- Industrial Safety and Health
- Troubleshooting Skills

### Electrical Systems

- Basic Electricity and Electronics
- Batteries and DC Circuits
- Transformers and AC Circuits
- Electrical Measuring Instruments
- Electrical Safety and Protection
- DC Equipment and Controls
- Single-Phase Motors
- Three-Phase Systems
- AC Control Equipment
- Electrical Troubleshooting

### Mechanical Systems

- Basic Mechanics
- Lubricants and Lubrication
- Power Transmission Equipment
- Bearings
- Pumps
- Piping Systems
- Basic Hydraulics
- Hydraulic Troubleshooting
- Basic Pneumatics
- Pneumatic Troubleshooting

### 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

### Electronics

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

### Foundations of Technology

- Force and Motion

### Industrial Hazard Control

- Chemical Hazards

### Machine Shop Practices

- Machine Shop Practices
- 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

### 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

### Microprocessors

- Introduction to Computers — User Level
- Input/Output Devices I — User Level
- How Computers Function — Tech Level
- Input/Output Devices II — Tech Level
- Maintaining/Troubleshooting Computer Systems — Tech Level

### Power Plant Operations

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

## PowerPoint Presentations

TPC Training Systems' PowerPoint presentations have been designed to enhance our course materials. Each disk contains the figures and tables used within the corresponding book.



### Process Control Instrumentation

Introduction to Process Control  
Foundations of Measurement Instrumentation  
Pressure Measurement  
Force, Weight, and Motion Measurement  
Flow Measurement  
Level Measurement  
Temperature Measurement  
Analytical Instrumentation  
Final Control Elements  
Safety, Calibration, and Testing Procedures

### Process Control Systems

Working with Controllers  
How Control Loops Operate  
Data Transmission  
Computers in Process Control

### Programmable Logic Controllers

Programmable Logic Controllers

### Rigging/Equipment Installation

Industrial Rigging Principles and Practices  
Equipment Installation

### Robotics

Introduction to Robotics

### Welding

Welding Principles  
Oxyfuel Operations  
Arc Welding Operations

