



Instructor Support Materials: PowerPoints™

Schoolcraft Publishing'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—they work well with the corresponding textbook or as an excellent stand-alone visual resource. 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.

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
- 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 Engineering Technology

- Force and Motion
- Basic Mechanics
- Lubrication
- Bearings
- Power Transmission Devices
- Pumps
- Piping Systems

- Hydraulic Equipment
- Hydraulic Systems Maintenance
- Pneumatic Equipment
- Pneumatic Systems Maintenance

Building Trades and Construction Technology

- 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

Computer Basics and Maintenance

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

Electronic Technology

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

Instrumentation and Process Control

- Process Instrumentation I
- Process Instrumentation II
- Introduction to 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
- Working with Controllers
- How Control Loops Operate
- Data Transmission
- Computers in Process Control

Machine Shop Technology

- 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

PowerPoint Presentations

Schoolcraft Publishing's PowerPoint presentations have been designed to enhance our course materials. Each disk contains the figures and tables used within the corresponding book.



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

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 and Equipment Installation

Industrial Rigging Principles and Practices
Equipment Installation

Robotics in Manufacturing

Introduction to Robotics

Safety and Health

Chemical Hazards

Welding

Welding Principles
Oxyfuel Operations
Arc Welding Operations

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