Skilled Trades Catalog

- Fundamentals
  - Hand Tools
  - Industrial Safety and Health
  - Making Measurements
  - Mathematics in the Plant
  - Metals in the Plant
  - Nonmetals in the Plant
  - Portable Power Tools
  - Reading Blueprints
  - Reading Schematics and Symbols
  - Troubleshooting Skills
- Electrical Systems
  - AC Control Equipment
  - Basic Electricity and Electronics
  - Batteries and DC Circuits
  - DC Equipment and Controls
  - Electrical Measuring Instruments
  - Electrical Safety and Protection
  - Electrical Safety in the Workplace - Understanding NFPA 70E®
  - Electrical Troubleshooting
  - Single-Phase Motors
  - Three-Phase Systems
  - Transformers and AC Circuits
  - Variable Frequency Drives
- Mechanical Systems
  - Basic Hydraulics
  - Basic Mechanics
  - Basic Pneumatics
  - Bearings
  - Hydraulic Troubleshooting
  - Lubricants and Lubrication
  - Piping Systems
  - Pneumatic Troubleshooting
  - Power Transmission Equipment
  - Pumps
- Air Conditioning and Refrigeration
  - Absorption Chillers
  - Air-Handling Systems
  - Compressors
  - Condensers and Cooling Towers
  - Control Systems
  - Evaporators and Metering Devices
  - Heat Pumps
  - Heating System Basics

- Ammonia Refrigeration
  - Ammonia Refrigeration Basics
  - Evaporators, Condensers, and Controls
  - Positive-Displacement Compressors
  - Purging, Piping, and Safety
- Building and Grounds Maintenance
  - Constructing the Building Shell
  - Finishing the Building Interior
  - Flat Roof Maintenance
  - Introduction to Carpentry
  - Landscaping Maintenance
  - Locks and Key Systems
  - Plumbing Systems Maintenance
  - Structural Painting
- Custodial Maintenance
  - Carpet and Upholstery Care
  - Cleaning Chemicals
  - Floors and Floor Care Equipment
  - Maintaining Floors and Other Surfaces
  - Rest Room Care
- Electronics
  - Amplifiers
  - Digital Logic Systems
  - Oscillators
  - Power Supplies
  - Semiconductors
- Energy Conservation
  - Electrical Energy Conservation
  - Energy Conservation Basics
  - Energy Losses in Buildings
  - Heating/Cooling System Efficiency
  - Mechanical Energy Conservation
- Foundations of Technology
  - Force and Motion
- Industrial Hazard Control
  - Chemical Hazards
- Machine Shop Practices
  - Basic Milling Procedures
  - Indexed Milling Procedures
  - Lathe—Machining Work in a Chuck
- Lathe—Turning Work Between Centers
- Machine Shop Job Analysis
- Machine Shop Practice
- Machine Shop Shaping Operations
- Machine Shop Turning Operations
- Multiple-Machine Procedures

- Machine Tool Workbooks
  - Basic Hand Tools
  - Cutting Tools I
  - Cutting Tools II
  - Measurements
  - Metal Cutting Fundamentals
  - Work Planning and Setup

- Material Handling Systems
  - Bulk-Handling Conveyors

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

- Packaging Machinery
  - Casing Machinery
  - Introduction to Packaging
  - Packaging Machinery

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

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

- Process Control Systems
  - Computers in Process Control
  - Data Transmission

- How Control Loops Operate
- Working with Controllers

- Programmable Logic Controllers
  - Programmable Logic Controllers

- Rigging and Equipment Installation
  - Equipment Installation
  - Industrial Rigging Principles and Practices

- Robotics
  - Introduction to Robotics

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

- Welding
  - Arc Welding Operations
  - Blueprint Reading for Welders
  - Oxyfuel Operations—Joining, Cutting, and Surfacing
  - Welding Principles

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

- KwikRef E-Learning
  - AC-DC Drives
  - Industrial Hydraulics
  - Introduction to Electricity
  - Mechanical
  - Mobile Electricity
  - Mobile Hydraulics
  - Multimeter Basics
  - PLC
  - Pneumatics

- Safety Training
- General Safety and Health
- Regulatory Compliance
- HAZWOPER
- Laboratory