



*INDUSTRIAL TRAINING CONSULTANTS, INC.*

# **TECHNICAL EDUCATIONAL PROGRAMS**

 **mpower**  
*your workforce  
with education!*

 **STOP**  
*training source*

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# PREVENTIVE MAINTENANCE

## LESSON TITLES

### Predictive and Preventive Maintenance Series

Production Excellence through Predictive  
and Preventive Maintenance

Operator-Driven Predictive and Preventive Maintenance

Clean Phase

Inspect Phase

Tools and Fasteners

Adjust Phase

Lubricate Phase

Operate Phase



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# MECHANICAL LESSON TITLES

## **Mechanical Fundamentals Series**

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Mechanical Principles and Theory: Force  
Mechanical Principles and Theory: Work  
Mechanical Principles and Theory: Rate  
Mechanical Principles and Theory: Power  
Mechanical Principles and Theory: Simple Machines

## **Mechanical Diagram Reading Series**

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Blueprint Reading

## **Bearing Series**

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Bearing Fundamentals  
Bearing Removal and Installation  
Bearing Maintenance

## **Gear Series**

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Gears  
Gearbox Fundamentals  
Gear Drive Maintenance  
Gearbox Procedures  
*(CUSTOMIZED)*



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## **Belt Drive Series**

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Belt Drive Fundamentals  
Belt Drive Maintenance  
Belt Drive Procedures

## **Chain Drive Series**

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Chain Drive Fundamentals  
Chain Drive Operation  
Basic Chain Drive Maintenance  
Specialized Chains  
Specialized Sprockets



## **Coupling Series**

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Coupling Fundamentals

Coupling Installation and Maintenance

Advanced Couplings: The Oil and Gas Industry

Fluid Couplings: Voith Turbo Coupling with Disk Pack

## **Shaft Series**

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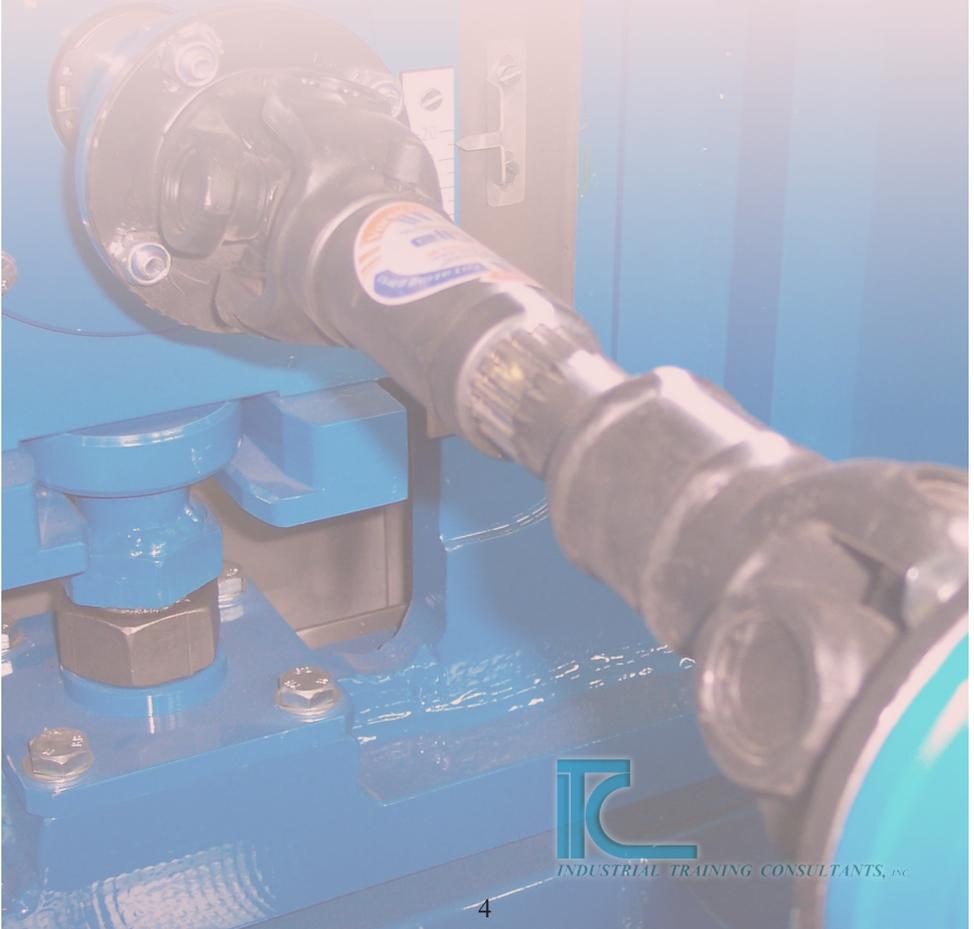
Shaft Fundamentals

Shafts: Tolerances, Alignment, and Motor Speed

## **Clutch Series**

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Clutch Fundamentals



# Pump Series

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Pump Fundamentals

Pump Operating Principles and Curves

Centrifugal Pumps

Positive Displacement Pumps

**NOTE:** AT THE REQUEST OF THE CLIENT, CUSTOMIZED INSTALLATION AND MAINTENANCE LESSONS ARE ALSO AVAILABLE FOR THE FOLLOWING SPECIFIC PUMP TYPES:

- Multistage Centrifugal Pumps
- Regenerative (Peripheral) Pumps
- Plunger Pumps
- Diaphragm Pumps
- Lobular Pumps
- Screw Pumps
- Lift Pumps
- Piston Pumps
- Internal & External Gear Pumps
- Vane Pumps



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## **Vacuum Pump Series**

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Vacuum Pump Fundamentals

Blower Vacuum Pumps

*(CUSTOMIZED)*

Liquid Ring Vacuum Pumps

Liquid Ring Vacuum Pumps: Nash Vectra XL

## **Seals Series**

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Static And Dynamic Seals

Mechanical Seal Fundamentals

Mechanical Seal Maintenance

*(CUSTOMIZED)*

## **Packing Series**

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Packing

## **Lubrication Series**

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Mechanical Lubrication Fundamentals

Mechanical Lubrication Components and Systems

*(IN DEVELOPMENT)*

Mechanical Lubrication Advanced

Principles, Chemistry, and Process

*(IN DEVELOPMENT)*

Mechanical Lubrication Maintenance Procedures

*(IN DEVELOPMENT)*



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## Measurement Series

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Mechanical Measurement: Tape Measures and Steel Rules

Precision Measurement I: Gauging

Precision Measurement II: Shafts

*(IN DEVELOPMENT)*

Precision Measurement III: Dial Calipers and Micrometers

*(IN DEVELOPMENT)*

## Torque Series

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Torque I

Torque II

## Rigging Series

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Rigging: Basic Components

Rigging: Basic Rigging Procedures



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## **Fasteners Series**

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Fasteners  
Advanced Fasteners I  
Advanced Fasteners II

## **Hand Tools Series**

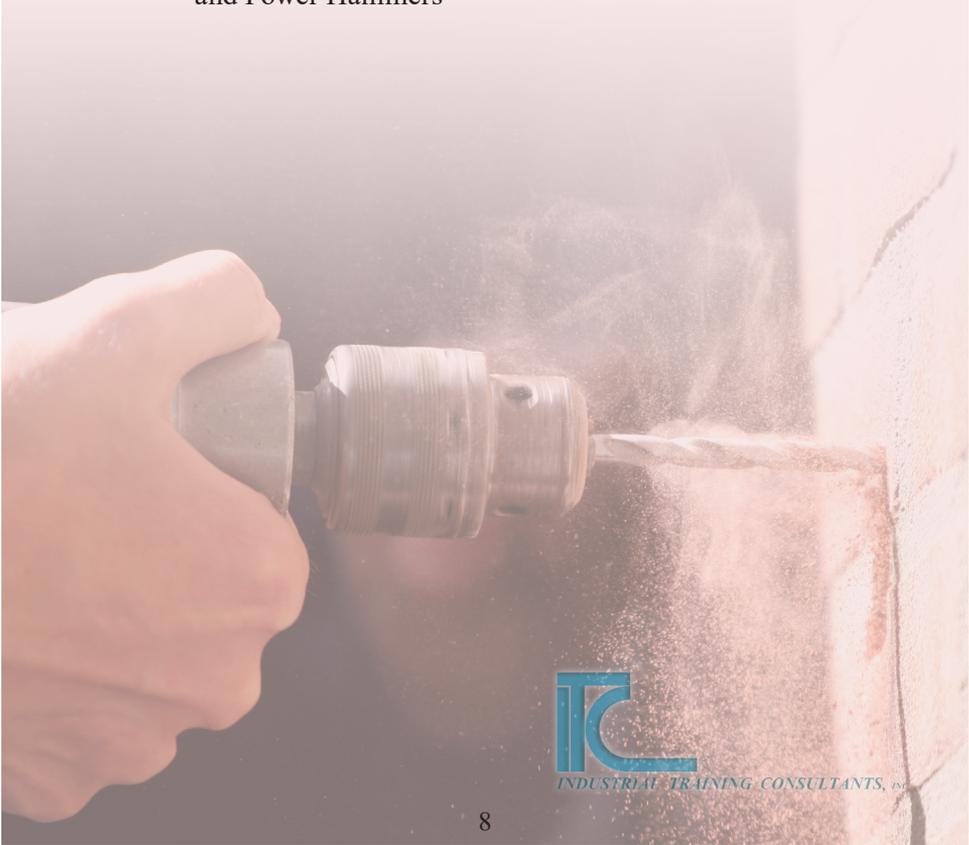
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Hand Tools I  
Hand Tools II  
Hand Tools III

## **Power Tools Series**

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Power Tools I: Drills  
Power Tools II: Saws  
Power Tools III: Sanders, Grinders, Impact Wrenches,  
and Power Hammers



# HYDRAULICS

## LESSON TITLES

### **Hydraulic Fundamentals Series**

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Hydrodynamics  
Principles of Hydraulic Fluids  
Hydraulic Systems Fundamentals: Components

### **Hydraulic Diagram Reading Series**

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Hydraulic Symbols I: Fluid Containment and  
Power Conversion Devices  
Hydraulic Symbols II: Control and Measuring Devices  
Hydraulic Schematic Diagrams  
*(CUSTOMIZED)*

### **Hydraulic Reservoir Series**

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Hydraulic Reservoirs  
Reservoir Variables and Maintenance

### **Hydraulic Pump Series**

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Hydraulic Pump Fundamentals: Operation  
Hydraulic Pump Fundamentals: Classifications  
Hydraulic Pump Installation and Maintenance

### **Hydraulic Valve Series**

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Directional-Control Valves  
Pressure-Control Valves  
Flow-Control Valves



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## **Cylinder Series**

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Hydraulic Cylinder Fundamentals: Operation  
Hydraulic Cylinder Fundamentals: Components  
Hydraulic Cylinder Types  
Hydraulic Cylinder Maintenance  
(*CUSTOMIZED*)  
Hydraulic Cylinder Assembly and Disassembly  
(*CUSTOMIZED*)

## **Hydraulic Motor Series**

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Hydraulic Motor Fundamentals  
Hydraulic Motor Installation and Maintenance

## **Hydraulic Lines and Fittings Series**

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Hydraulic Lines and Fittings: Fundamentals  
Hydraulic Lines and Fittings: Maintenance and Installation

## **Filtration Series**

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Principles of Fluid Filtration  
Hydraulic Filtration Devices

## **Accumulator Series**

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Hydraulic Accumulators

## **Measuring Devices Series**

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Pressure Gauges  
Flow Gauges  
Temperature Gauges

## **Hydraulic Circuits Series**

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Principles of Basic Hydraulic Circuits

Complex Hydraulic Circuits, Part 1

*(CUSTOMIZED)*

Complex Hydraulic Circuits, Part 2

*(CUSTOMIZED)*

Complex Hydraulic Circuits, Part 3

*(CUSTOMIZED)*

Complex Hydraulic Circuits, Part 4

*(CUSTOMIZED)*

## **Temperature Management Series**

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Temperature Management

## **Complete System Maintenance Series** ***(CUSTOMIZED)***

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Installing Hydraulic Components

Routine Maintenance

Hydraulic System Troubleshooting



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# PNEUMATICS

## LESSON TITLES

### **Pneumatic Fundamentals Series**

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Fundamentals of a Pneumatic System  
Pneumatic Principles and Theory

### **Pneumatic Diagram Reading Series**

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Pneumatic Symbols  
Pneumatic Circuits  
Pneumatic Schematic Diagrams  
*(CUSTOMIZED)*

### **Pneumatic Air Handling Series**

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Pneumatic Air Preparation  
*(IN DEVELOPMENT)*  
Pneumatic Air Distribution  
Installation and Maintenance of Pneumatic Lines

### **Pneumatic Valves Series**

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Pneumatic Valves and Operators

### **Pneumatic Actuators Series**

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Pneumatic Actuators: Linear  
*(IN DEVELOPMENT)*  
Pneumatic Actuators: Rotary  
Pneumatic Actuators: Vacuum Generators  
Pneumatic Actuator Maintenance  
*(CUSTOMIZED)*

## **Pneumatic Compressors Series**

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Pneumatic Compressor Fundamentals  
Positive-Displacement Compressors  
Liquid Ring Compressors: Garo  
Rotary Screw: Atlas Copco Oil-Free  
Dynamic Compressor Fundamentals  
*(CUSTOMIZED)*  
Nash HP-9 Liquid Ring Compressor

## **Pneumatic Fans Series**

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Fan Fundamentals  
Centrifugal Fans

## **Pneumatic Troubleshooting Series** ***(CUSTOMIZED)***

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Preventative Maintenance of a Pneumatic System  
Pneumatic Troubleshooting



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# ELECTRICAL LESSON TITLES

## **Electrical Fundamentals Series**

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Electrical Theory and Principles  
Electrical Theory: Magnetism

## **Electrical Diagram Reading Series (IN DEVELOPMENT)**

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Electrical Diagrams Overview  
Electrical Diagrams I: Block Diagrams  
and Single-Line Diagrams  
Electrical Diagrams II: Schematic Diagrams  
Electrical Diagrams III: Wiring Diagrams  
Electrical Diagrams IV: Interconnection Diagrams

## **Basic Electrical Circuits Series (IN DEVELOPMENT)**

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Series Circuits  
Parallel Circuits  
Series-Parallel Circuits



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## **Circuit Protection Series** **(IN DEVELOPMENT)**

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Grounding

De-Energizing Circuits: Overload Relays and Contactors

Circuit Protection I: Circuit Breakers

Circuit Protection II: Fuses

## **Circuit Components Series**

---

Relays I: Basic Principles and Protective Relays

*(IN DEVELOPMENT)*

Relays III: Overload Relays

*(IN DEVELOPMENT)*

Relays IV: Time-Delay Relays

*(IN DEVELOPMENT)*

Relays V: Solid-State Relays

*(IN DEVELOPMENT)*

Switches I: Fundamentals

Switches II: Selector Switches and Limit Switches

Switches III: Photoelectric Switches

Switches IV: Proximity Switches

Timers

*(IN DEVELOPMENT)*

Transformers Fundamentals and Principles

*(IN DEVELOPMENT)*

Transformers Types

*(IN DEVELOPMENT)*



## **Circuit Testing Devices Series**

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Electrical Tools

Measurement Device Fundamentals

*(IN DEVELOPMENT)*

Measurement Devices: Electrical Quantities

*(IN DEVELOPMENT)*

Testing Devices I: Multimeters

*(IN DEVELOPMENT)*

Testing Devices II: Oscilloscopes

*(IN DEVELOPMENT)*

## **Cables and Conduits Series**

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Cables and Conductors

*(IN DEVELOPMENT)*

Conduit I: Fundamentals

## **AC/DC Circuit Series**

***(IN DEVELOPMENT)***

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AC Circuit Theory

DC Circuit Theory and Principles



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## **Motor Performance Series** **(IN DEVELOPMENT)**

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Motor Theory and Principles  
Motor Speed and Torque  
Motor Performance: Nameplate Efficiency  
Motor Performance: Efficiency, Load, and Power

## **Motor Starters and Controllers Series** **(IN DEVELOPMENT)**

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Motors: Starters Fundamentals  
Motors: Magnetic Starters  
Motors: Starting Under Reduced Voltage/Reduced Current  
Motor Control I: Manual Motor Control  
AC Motor Controllers

## **Motor Types Series**

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AC Motors I: Fundamentals  
AC Motors II: Fractional-Horsepower Motors  
AC Motors III: Three-Phase Induction Motors  
*(CUSTOMIZED)*  
AC Motors IV: Squirrel-Cage Motors  
*(CUSTOMIZED)*  
DC Motors I: Fundamentals  
DC Motors II: Shunt and Compound Motors  
Variable-Speed Drives (VSD)



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## **AC Generator Series** **(IN DEVELOPMENT)**

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AC Generators I: Overview

## **Power Distribution Series** **(IN DEVELOPMENT)**

---

Power Distribution I: Fundamentals

Power Distribution II: Electric Power Substations

## **Uninterruptible Power Supply Series**

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Uninterruptible Power Supply Fundamentals

Uninterruptible Power Supply Safety, Control, and Operation  
*(CUSTOMIZED)*

## **Battery Series** **(IN DEVELOPMENT)**

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Battery System

Battery Chargers

## **Panels and Switchgears Series**

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Control Panels

Low-Voltage Switchgear

Medium-Voltage Switchgear

High-Voltage Switchgear



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# PIPE FITTING LESSON TITLES

## **Piping Fundamentals Series**

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Piping Basics

## **Pipe Diagram Reading Series**

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Piping Diagram Fundamentals  
Piping Diagram Symbols

## **Pipe Fitting Series (IN DEVELOPMENT)**

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Tube Fittings  
Hose Fittings

# MATH

## LESSON TITLES

### **Math Fundamentals Series** **(IN DEVELOPMENT)**

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Basic Math I: Decimals and Fractions

Basic Math II: Comparisons

### **Metric Measurement Series** **(IN DEVELOPMENT)**

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The Metric System

### **Algebra Series** **(IN DEVELOPMENT)**

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Basic Algebra I: Expressions

Basic Algebra II: Linear Equations and Inequalities

Basic Algebra III: Quadratic Equations, Polynomials,  
and Rational Expressions

### **Geometry Series** **(IN DEVELOPMENT)**

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Basic Geometry I: Two-Dimensional Figures

Basic Geometry II: Two-Dimensional Shapes

Basic Geometry III: Three-Dimensional Thinking



# TECHNICAL ACADEMICS

## LESSON TITLES

### **Basic Chemistry Series**

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Introduction to Chemistry: History and Disciplines

Introduction to Chemistry: The Atom

Introduction to Chemistry: Acids and Bases

*(IN DEVELOPMENT)*

Introduction to Chemistry: Chemical Formulas and Reactions

*(IN DEVELOPMENT)*

Introduction to Chemistry: The Periodic Table

*(IN DEVELOPMENT)*

### **Organic Chemistry Series** ***(IN DEVELOPMENT)***

---

Basics and Principles of Organic Chemistry

Advanced Principles of Organic Chemistry: Organic Compounds

Naming and Identifying Organic Compounds

Advanced Principles of Organic Chemistry: Biochemicals

Basic Organic Chemical Reactions

Advanced Organic Chemical Reactions

Fundamentals and Petroleum and Petrochemicals



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## **Thermodynamics Series**

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Principles of Thermodynamics  
Heat  
The Laws of Thermodynamics  
*(IN DEVELOPMENT)*

## **Fluid Dynamics Series**

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Fluid Dynamics

## **Steam Series** *(IN DEVELOPMENT)*

---

Steam Principles and Theory  
Steam Tables

## **Quality Control Series** *(IN DEVELOPMENT)*

---

Basic Principles of Quality Control  
Quality Control System Elements

## **Statistical Process Control Series** *(IN DEVELOPMENT)*

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Statistical Process Control



# Steam-Assisted Gravity Drainage (SAGD) Principles and Concepts Series (CUSTOMIZED)

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Oil Sands Introduction  
SAGD Theory  
Emulsion Theory  
Phase-Separation Theory  
Gas-Assisted Flotation Theory  
Water Clarification Theory  
Water Clarification Chemistry  
Decanter Centrifuge Theory  
Media Bed Filtration Theory  
Ion Exchange Theory  
Evaporation and Condensation Theory  
Evaporation and Condensation Variables  
Heat Transfer, Steam, and Heat Recovery Theory  
Combustion Theory  
Flue Gas and Emissions Theory  
Gas Turbine Theory  
Power Generation Theory  
Power Distribution Theory



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## **Solar Power Generation**

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Solar Power Generation Overview

*(IN DEVELOPMENT)*

Photovoltaic Cell Theory

*(IN DEVELOPMENT)*

Photovoltaic Cell Operation

## **Natural Gas Processing (NGP) Series** ***(CUSTOMIZED)***

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## **Liquefied Natural Gas Processing (LNGP) Series** ***(CUSTOMIZED)***

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## **Amine Sweetening and Sulfur Recovery Series** ***(CUSTOMIZED)***

---

## **Hydrogen Sulfide Series**

---

Hydrogen Sulfide Physical Characteristics and Properties

## **Drilling Rig Series** ***(CUSTOMIZED)***

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Diesel Engine Operating Principles

Generator Operating Principles

Electrical Theory and Principles

Principles of Magnetism

Drilling Mud Principles

Principles of Kicks and Blowouts

Accumulator: Principles



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## **Petroleum Corrosion Series**

---

Corrosion and Chemistry Basics

Metals and Corrosion

Corrosion Types: Galvanic

*(IN DEVELOPMENT)*

Corrosion Prevention

*(IN DEVELOPMENT)*

## **Natural Gas Hydrates Series**

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Natural Gas Hydrates Fundamentals

Natural Gas Hydrates Physical Properties

Natural Gas Hydrates Prevention

Natural Gas Hydrates Inhibitors

## **Desalination Series**

***(CUSTOMIZED)***

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## Heat Exchanger Series

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Heat Exchangers Overview  
Heat Transfer Principles  
Heat Exchanger Operating Principles  
Shell-and-Tube Heat Exchangers  
Plate Heat Exchangers  
Condensers and Reboilers  
Boiling and Condensing Principles  
Cooling Tower Principles and Components  
Cooling Tower Operation and Water Treatment  
Air-Cooled Heat Exchangers  
Fired Heaters/Furnaces  
Combustion Principles



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# SAFETY

## LESSON TITLES

### Occupational Health and Safety Administration (OSHA) 1910 Safety Series

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Hazard Communication  
Hearing Conservation  
Respiratory Protection  
Confined Space Entry  
Lockout/Tagout  
Fire Safety  
Electrical Awareness  
Electrical Safety  
Hazardous Material (Hazmat) Awareness  
Fall Safety  
Laboratory Safety  
Ergonomic Safety  
Crane Safety  
Forklift Awareness  
Forklift Safety  
Bloodborne Pathogens  
Lead Awareness  
PSM Awareness  
Radiation Awareness  
Emergency Planning and Response  
Asbestos Awareness  
Advanced Electrical Safety  
Hazardous Materials Table  
Personal Protective Equipment  
Emergency Response Awareness  
Hand and Power Tool Safety  
Office Safety  
High-Voltage Electrical Safety  
Knife Safety

## **OSHA 1926 Construction Safety Series (CUSTOMIZED)**

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Hazard Communication  
Noise Exposure and Hearing Conservation  
Respiratory Protection  
Confined Space Entry  
Fire Safety  
Radiation Awareness  
Hand and Power Tool Safety  
Fall Safety  
Scaffold Safety and Awareness  
Advanced Scaffold Safety  
Crane and Derrick Safety  
Hoist, Elevator, Conveyor, and Aerial Lift Safety  
Hazardous Waste Operations and Emergency Response  
(HAZWOPER)  
Personal Protective and Lifesaving Equipment  
Emergency Action Plans  
Lead Awareness  
Process Safety Management of Highly Hazardous  
Chemicals (PSM Awareness)  
Electrical Awareness  
Electrical Safety  
Forklift Awareness  
Forklift Safety  
Signs, Flaggers, and Barricades  
Materials Handling, Storage, Use, and Disposal  
Welding and Cutting Safety  
Concrete and Masonry Construction  
Steel Erection  
Power Transmission and Distribution  
Asbestos Awareness  
Toxic and Hazardous Substances  
Excavations and Demolitions



## **Alberta (Canada) Occupational Health and Safety (AOHS) Series**

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Hazard Assessment, Elimination, and Control  
Chemical Hazards, Biological Hazards, and Harmful Substances  
Asbestos Awareness  
Lead Awareness  
Confined Space Safety  
Confined Spaces: Entry and Exit  
Cranes, Hoists, and Lifting Devices: General Requirements  
Cranes Safety  
Hoists and Lifting Devices Safety  
Emergency Preparedness and Response  
Entrances, Walkways, Stairways, and Ladders  
Fall Safety  
Fall Protection  
Fire Safety  
Fire and Explosive Hazards  
First Aid  
General Safety Precautions  
Lifting and Handling Loads  
Managing the Control of Hazardous Energy  
Noise Exposure  
Overhead Power Lines  
Personal Protective Equipment, Part 1  
Personal Protective Equipment, Part 2  
Powered Mobile Equipment  
Radiation Awareness and Exposure  
Rigging Safety  
Safeguards  
Scaffolds and Temporary Work Platforms  
Scaffold Safety  
Tools, Equipment, and Machinery  
Explosive Safety  
Explosive Safety: Application  
Oil and Gas Wells  
Utility Workers—Electrical



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## **Electrical Safety Fundamentals Series**

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Electrical Awareness  
Electrical Safety

### **High-Voltage Electrical Safety (IN DEVELOPMENT)**

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NFPA 70E: Advanced Electrical Safety  
Work-Related Hazards  
Safety Preparations  
Lockout/Tagout  
Enclosed Spaces  
Fall Safety  
Work with or Near Electric Lines and Equipment  
Line and Equipment De-Energization  
Testing  
Mechanical Equipment  
Overhead Lines  
Line-Clearance Tree Trimming Operations  
Communication Facilities  
Underground Electrical Installations  
Substations  
Power Generation  
Special Conditions



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# CIVIL DEFENSE

## LESSON TITLES

### **Emergency Preparedness and Response Series (CUSTOMIZED)**

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Emergency Preparedness and Prevention  
Emergency Supplies  
Emergency Response Fundamentals  
Personal Protective Equipment (PPE) for First Responders  
Emergency Communications  
Emergency Evacuation  
Crisis Management and Disaster Recovery

### **Medical Emergency Preparation and Response Series (CUSTOMIZED)**

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Medical Emergency Prevention and Preparation  
First Aid Kit  
Calling for Help  
Medical Emergency Response  
Basic Life Support

## Firefighting Series

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Fire Principles and Combustion Theory

*(IN DEVELOPMENT)*

Fire Classification and Fire Extinguishers

*(CUSTOMIZED)*

Firefighting Safety

*(CUSTOMIZED)*

Firefighting Equipment

*(CUSTOMIZED)*

Firefighting Vehicles

*(CUSTOMIZED)*

Firefighting Techniques

*(CUSTOMIZED)*

Firefighting Procedures

*(CUSTOMIZED)*



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## **Natural Disaster Response Series** **(CUSTOMIZED)**

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Natural Disaster Overview  
Storm Fundamentals and Response  
Sandstorm Fundamentals and Response  
Drought Fundamentals and Response  
Flood Fundamentals and Response  
Extreme Temperature Fundamentals and Response  
Landslide Fundamentals and Response  
Sinkhole Fundamentals and Response  
Pandemic Fundamentals and Response

## **Man-Made Disaster Response Series** **(CUSTOMIZED)**

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Man-Made Disaster Overview  
Industrial Accident Response  
Transport Accident Response  
Pollution Accident Response  
Chemical Accident Response  
Biological Accident Response  
Radiological Accident Response

## **Homeland Security Series** **(CUSTOMIZED)**

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Threat and Risk Assessment  
Chemical Threat Fundamentals and Response  
Biological Threat Fundamentals and Response  
Radiological Threat Fundamentals and Response  
Nuclear Threat Fundamentals and Response  
Bomb Threat Fundamentals and Response  
Active Shooter Fundamentals and Response



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# **Transportation Incident Emergency Response Series**

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Transportation Emergency Response Fundamentals

*(CUSTOMIZED)*

Safety Precautions

*(CUSTOMIZED)*

Protective Clothing Levels and Materials

*(IN DEVELOPMENT)*

Protective Clothing Inspection Procedures

*(IN DEVELOPMENT)*

Protective Clothing Donning, Doffing,  
and Decontamination Procedures

*(IN DEVELOPMENT)*

Respiratory Protection

*(CUSTOMIZED)*

Scene Management

*(CUSTOMIZED)*

Protective Action

*(CUSTOMIZED)*

Hazardous Materials and Wastes

*(CUSTOMIZED)*

Hazard Identification

*(CUSTOMIZED)*

Instrument Usage

*(IN DEVELOPMENT)*

Sample Collection

*(IN DEVELOPMENT)*

Material Analysis

*(IN DEVELOPMENT)*

Material-Specific Emergency Response

*(CUSTOMIZED)*

Environmental Health

*(CUSTOMIZED)*

Chemical, Biological, and Radiological Attacks

*(CUSTOMIZED)*

Chemical Incident Hazards

*(CUSTOMIZED)*

Hazardous Materials Shipping Specifications

*(CUSTOMIZED)*

Pipeline Transportation

*(CUSTOMIZED)*



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## **Educational Support Software:**

e-Xpert™ Troubleshooting Software

Pump Pathfinder™ Learning Management System Software

Surveyor™ Needs Assessment Software

Knowledge Management Software

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with education!*



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