



Catalog of Online Training

A Modern Learning Experience for the Technical Workforce



Hundreds of technical companies worldwide are using GPiLEARN+™ to optimize workforce performance.

Benefits of GPiLEARN+

Do your employees have the knowledge, skills, and abilities required to operate and maintain equipment safely and efficiently?

GP Strategies® has been helping companies solve workforce qualification and regulatory compliance challenges for over 50 years. GPiLEARN+ is an industry leading online training solution that can be fully implemented for your organization in just a few weeks, allowing you to achieve an ultra-fast time to value where you see immediate results.

With GPiLEARN+, you can easily implement blended learning solutions that makes a lasting impact on your engineers, technicians, operators, and other skilled workers. From managing health, safety & environmental programs to complex position-based qualifications, GPiLEARN+ is the solution you need to maintain a safe and effective technical workforce!

Rely on GPiLEARN+ to optimize your workforce performance

Simplified Learner Experience

- Intuitive User Interface
- Interactive, On-Demand Courseware
- Course Reminders and Notifications
- Collaborative and Social Learning Tools

Flexible Platform Technology

- Business Intelligence to Visualize Analytics
- Customizable Login Page and Branded Site
- Single Sign-On (SSO) Implementations
- Seamless Integration with Existing HRMS/HRIS


Efficient Administration

- Flexible Learning Paths and Job Roles
- Ad Hoc Reporting
- Schedule and Track Classroom Courses
- Easily Import Content and Data

The GPiLEARN+ content shown in this catalog can be accessed through the GPiLEARN+ Learning Management System (LMS) or can be integrated into your company's existing LMS through our content server approach, if desired.

The GPiLEARN+ LMS offers your team the ability to:

- Manage and track the training progress of employees using configurable reports and customized dashboards
- Have an LMS and course content that are fully hosted (no need to store files or purchase and maintain an LMS, therefore, lowering your operating costs and accelerating your launch date)
- Access to regulatory compliance content that is continuously monitored by our experts and updated by our team with the latest regulatory changes
- Customize your GPiLEARN+ branded site with your company branding, custom exam settings, and notifications
- Access training 24/7/365
- Access collaborative tools such as Learning Centers and Channels
- Assign and track your various learning events (site-specific content, exams, classroom courses, hands-on training scenarios, manager assessments) at no additional cost
- Easily develop and assign structured, job-specific curricula to your workforce
- Effectively manage learner accounts
- Have users self-enroll in lessons or access the required training assigned to them
- Upload unlimited third-party content at no additional cost
- Customize certification settings for courses that need to be taken on a recurring basis
- Assign prerequisite training
- Earn college credits and PDHs



"GPiLEARN+ is a beneficial addition to our current training program and a suitable fit for our industry. We have successfully incorporated a variety of GPiLEARN+ courses to enhance our in-house training programs. The friendly, prompt and reliable support team is an exceptional strength of GPiLEARN+."

— Julie A. Schultz, Dairyland Power Cooperative

GPiLEARN+ Support

The GPiLEARN+ support team offers extensive support and training to ensure your successful use of the LMS. Our goal is to train your administrators to effectively manage training on your new GPiLEARN+ site. Support includes:

- Access to support team members across the world Monday – Friday, 8 am - 8 pm ET
- Live monthly webinars and training classes
- Job aids, best practice documents, manuals, communication plans, and other supporting documentation

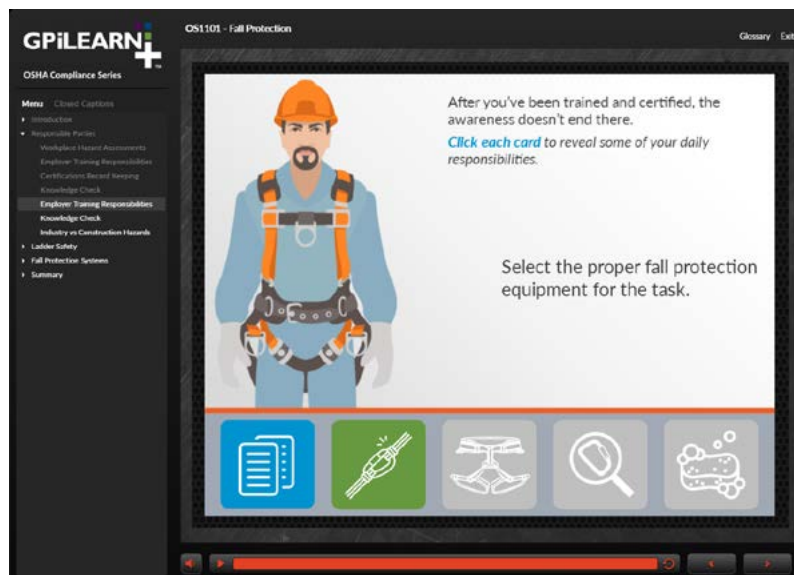
GPiLEARN+ Online Training

GPiLEARN+ online training is designed to help technical companies develop a traditional or multi-skilled workforce, improve knowledge, and reduce accidents in a cost effective manner.

The GPiLEARN+ catalog presents technical and regulatory compliance topics in many different types of modalities, including traditional e-Learning, microlearning, vignettes, interactive 3D models, and much more. Our e-Learning includes animations, interactive exercises, narration, and knowledge checks to keep the audience engaged throughout the learning process.

Our content is developed following proven instructional design principles with input from industry leading subject matter experts. All content is SCORM-compliant, allowing an effective means to track training while providing the flexibility to resume lessons through bookmarking if an employee gets called away during training.

GP Strategies believes that a complete, efficient, and effective training program encompasses a blended learning approach that includes not only e-Learning, but also hands-on training and qualification, and instructor-led training. Our training expertise in a wide array of technical industries allows us to support your company in designing your training and qualification programs. Our Environmental, Health & Safety experts can provide critical inputs to help you structure a best in class compliance program. Please contact us if you have any needs related to designing and implementing your programs.



Lesson:
OS1101 - Fall Protection

Series:
OSHA

Description:
This lesson identifies fall protection requirements and overviews how to use fall protection equipment in the workplace, in accordance with OSHA regulation. This lesson focuses on identifying definitions and roles of "competent" and "qualified" persons, explaining the responsibilities of the employer and employee regarding fall protection, and discussing the characteristics and requirements of various fall protection equipment.



Earn College Credits and PDHs on GPiLEARN+

With today's demanding work schedules, online training offers a convenient way for you and your staff to earn degrees and train to meet your certification requirements.

Have system operators that need to maintain their certification? GP Strategies is an Approved Provider of Continuing Education for the North American Electric Reliability Corporation (NERC) Continuing Education Program. GP Strategies offers innovative training to help keep operators certified through our approved NERC Individual Learning Activities (ILAs).

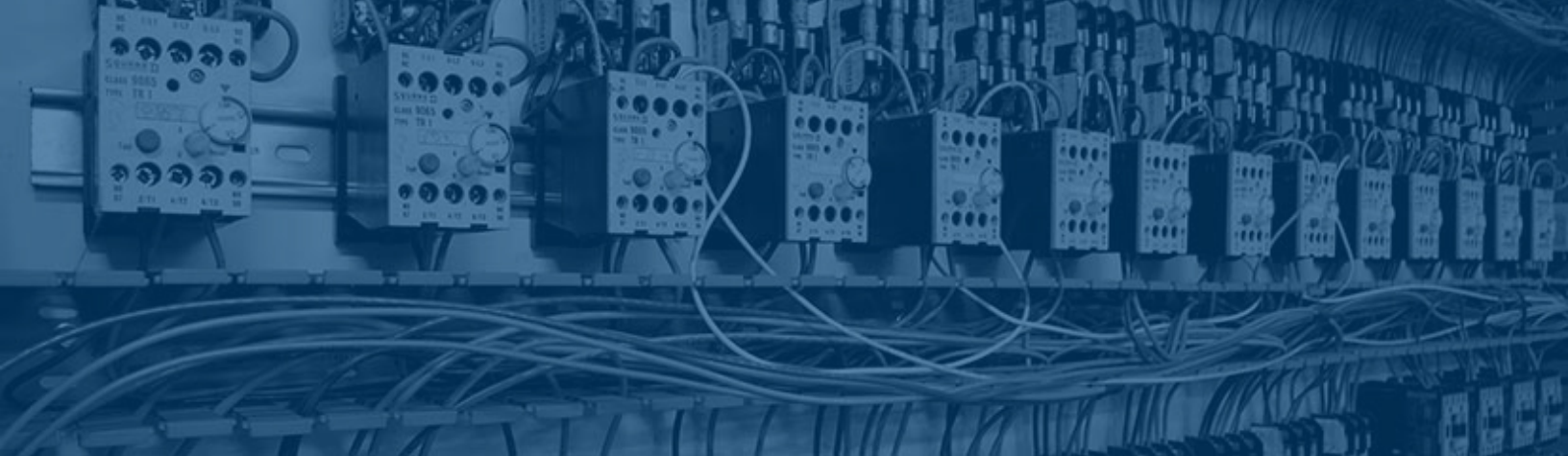


Professional Development Hours (PDHs) can be awarded for successful completion of GPiLEARN+ content. Because specific PDF requirements vary state to state, individuals are strongly encouraged to confirm with their specific licensing board that GPiLEARN+ courses meet PDH credit requirements.

GPiLEARN+ offers college credits through our strategic partnerships with higher learning institutions. To award college credits through our strategic partnerships, your company can educate your staff while allowing users to earn an Associate's or Bachelor's Degree at any of the following institutions of higher learning.

GPiLEARN+ college partners include:





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Regulatory Compliance

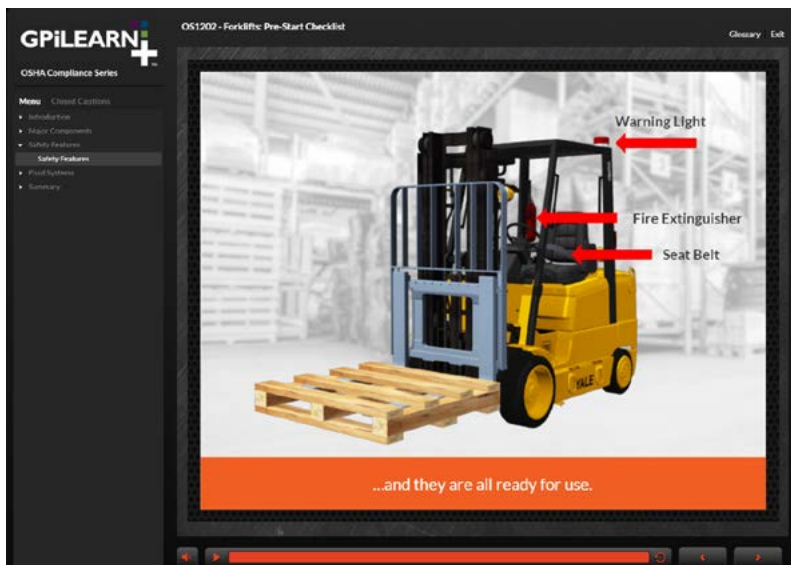
This series of OSHA, Environmental, and NERC courses provide training on a wide range of regulatory topics that allow your workforce to stay informed, safe, and always within compliance requirements. For additional lessons on these topics and more, check out the SafetySkills section of the catalog.

OSHA

The OSHA Compliance series contains numerous courses to address the Federal Safety and HAZMAT issues within technical industries.

- OS01** **Arsenic Awareness**
OS0101 Arsenic Awareness
- OS02** **Asbestos Safety**
OS0201 Asbestos Safety
- OS03** **Automated External Defibrillator**
OS0301 Automated External Defibrillator (AED)
- OS04** **CPR**
OS0401 Basic CPR (American Heart Association)
- OS05** **First Aid**
OS0501 Basic First Aid
- OS06** **Bloodborne Pathogens**
OS0601 Bloodborne Pathogen Awareness
- OS07** **Confined Space**
OS0701 Confined Space Fundamentals
OS0702 Working in Confined Spaces
OS0703 Atmospheric Testing in Confined Spaces

- OS08** **Cranes**
OS0801 Cranes - Module 1
OS0802 Cranes - Module 2
- OS09** **Electrical Safety**
OS0901 Electrical Safety
OS0902a Electrical Safety for Qualified Electrical Personnel
OS0902b Tools and Equipment Safety For Qualified Electrical Personnel
OS0902c Arc Flash Protection For Qualified Electrical Personnel
OS0902d Personal Protective Equipment for Qualified Electrical Personnel
- OS10** **Ergonomics**
OS1001 Ergonomics General Awareness
OS1002 Industrial Ergonomics
OS1003 Office Ergonomics
- OS11** **Fall Protection**
OS1101 Fall Protection
OS1102 Fall Protection: Personal Fall Arrest System (PFAS)
- OS12** **Forklifts**
OS1201 Forklifts: General Awareness
OS1202 Forklifts: Pre-start Checklist



Lesson:
OS1202 - Forklifts: Pre-Start Checklist

Series:
OSHA

Description:
This lesson focuses on the examination of various components as part of a pre-start checklist for both electric and combustion engine forklifts, in accordance with OSHA regulation. In addition, the lesson overviews what to do if you find a problem during while going through the pre-start checklist process.

- OS13** **Hazard Communication**
OS1301 GHS Hazard Communication
- OS14** **Hazmat**
OS1401 Hazmat - Module 1
OS1402 Hazmat - Module 2
- OS15** **Hearing Conservation**
OS1501 Hearing Conservation - Module 1
OS1502 Hearing Conservation - Module 2
- OS16** **Hazardous Compounds**
OS1601 Lead Awareness
- OS17** **Lockout/Tagout**
OS1701 Lockout/Tagout - Module 1
OS1702 Lockout/Tagout - Module 2
- OS18** **Fire Safety**
OS1801 Portable Fire Extinguishers
- OS19** **PPE**
OS1901 PPE General Protection
OS1902 PPE Foot Protection
OS1903 PPE Eye and Face Protection
OS1904 PPE Hand Protection
OS1905 PPE Head Protection
- OS20** **Respiratory Protection**
OS2001 Respirators - Module 1
OS2002 Respirators - Module 2
OS2003 Respirators - Module 3
- OS21** **Scaffolding**
OS2101 Scaffold Safety - Module 1
OS2102 Scaffold Safety - Module 2
- OS22** **Accessing Medical Records**
OS2201 Accessing Medical Records
- OS23** **CPR**
OS2301 American Red Cross CPR
- OS24** **Vehicle Safety**
OS2401 Vehicle Startup Checks and Adjustments
OS2402 Safety Concerns Within the Vehicle
OS2403 Defensive Driving Strategies
OS2404 Hazardous Driving Conditions
OS2405 Common Driving Distractions

- OS25** **Electrical Safety**
OS2501 Arc Flash
- OS26** **Combustible Hazards**
OS2601 Combustible Dust
- OS27** **Tool Safety**
OS2701 Stationary Power Tool Safety
- OS40** **Safety - Various/Other**
OS4001 Hazard Recognition

Environmental

The Environmental Compliance series contains courses which address DOT and EPA compliance regulations for technical industries.

-
- EN01** **Air Emissions and Permits**
EN0101 Air Handbook
 - EN02** **Asbestos**
EN0201 Asbestos Handbook
 - EN03** **DOT Hazardous Materials**
EN0301 DOT General Awareness
EN0302 DOT Function Specific
EN0303 DOT Safety
EN0304 DOT Security Awareness Training
 - EN04** **Environmental Policy**
EN0401 Environmental Policy Handbook
 - EN05** **Hazardous Material**
EN0501 Hazardous Materials Handbook
 - EN06** **Hazardous Waste**
EN0601 Hazardous Waste Generation
EN0602 Hazardous Waste Handbook
 - EN07** **Polychlorinated Biphenyls (PCB)**
EN0701 PCB Handbook
 - EN08** **Solid Waste**
EN0801 Solid Waste Handbook
EN0802 Solid Waste Permit

- EN09** **SPCC**
EN0901 Spill Prevention Control and Countermeasure (SPCC)
- EN10** **Waste Water**
EN1001 Storm Water
- EN11** **Water Pollution and Permits**
EN1101 Water Handbook
- EN12** **Waste Management**
EN1201 Waste Management
- EN13** **Waste Water**
EN1301 Waste Water

NERC

The NERC Compliance series provides the knowledge you need to promote the reliability of your bulk electric system and comply with NERC standards.

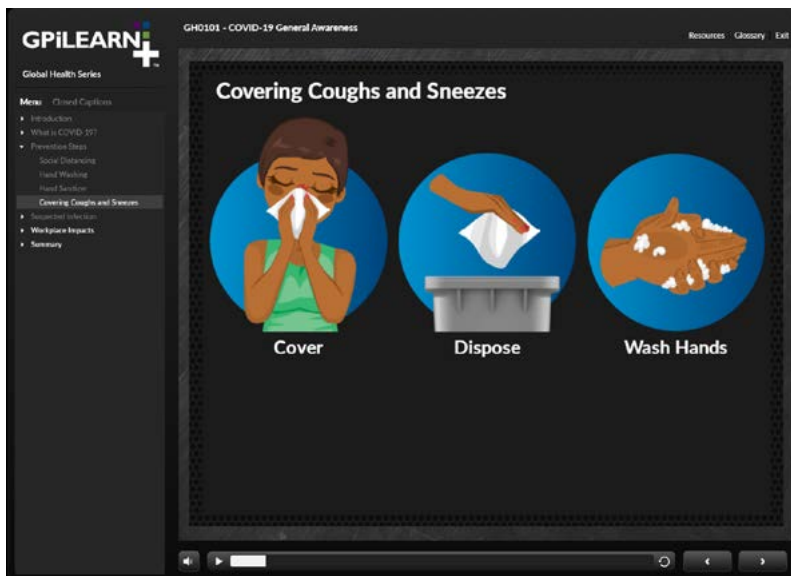
- NS01** **NERC Compliance Awareness**
NS0101 NERC Compliance Awareness
- NS02** **NERC Cyber Security Standards Overview**
NS0201 NERC Cyber Security Standards Overview

- NS03** **NERC Standards for Generator Owners and Generator Operators**
NS0301 Introduction to Power Systems for Generator Owners (GOs) and Generator Operators (GOPs)
- NS0302** Event Reporting
- NS0304** Facility Ratings Methodology
- NS0305** System Reliability
- NS0306** System Protection Coordination
- NS0307** Generator Operation for Maintaining Network Voltage Schedules
- NS0308** Generator Capability Verification
- NS0309** Three-way Communication
- NS0310** Protective Relay

Global Health

This series provides awareness level training relating to health concerns that have the potential to affect the global population and therefore impact how your organization operates on a day-to-day basis.

- GH01** **Coronavirus Disease 2019**
GH0101 COVID-19



Lesson:
GH0101 - COVID-19

Series:
Global Health

Description:
This COVID-19 General Awareness lesson will give you insight on how to identify symptoms of the novel coronavirus disease 2019, information on how it spreads, useful prevention steps you can take, what to do if you suspect you might have been infected, and some workplace impacts to be aware of.

Craft Skills

The craft skills section consists of lessons designed for electricians, mechanics, and I&C technicians. In addition, many topics may apply to operators who also have equipment maintenance responsibilities.

Electrical Maintenance

Our Electrical Maintenance series contains courseware relevant for electricians.

EL01 Prints and Drawings

- EL0101 Classifications of Prints and Drawings
- EL0102 Schematic Diagrams
- EL0103 Connection Diagrams
- EL0104 Logic Diagrams
- EL0105 Single-Line Diagrams
- EL0106 Elementary Diagrams
- EL0107 Electrical-Electronic Print and Drawing Reading
- EL0108 Symbols/Components on Prints and Drawings
- EL0109 Tracing of Flow paths of Plant Piping and Instrumentation Diagrams (P&IDs)
- EL0110 Location and Usage of Plant Print Indexes

EL02 Electrical Codes and Standards

- EL0201 Safety Codes and Standards
- EL0202 Safety Hazards Associated with Electrical Equipment

EL03 Single- and Three-Phase Circuits

- EL0301 Calculation of Electrical Values of Single-Phase A.C. Circuits
- EL0302 Drawing Single-Phase A.C. Circuits
- EL0303 Calculation of Electrical Values of Three-Phase A.C. Circuits
- EL0304 Drawing Three-Phase A.C. Circuits
- EL0305 Building Single-Phase A.C. Circuits
- EL0306 Building Three-Phase A.C. Circuits

EL04 Transformers

- EL0401 Transformer Characteristics
- EL0402 Essential Parts of a Simple Transformer
- EL0403 Relationship Between Primary and Secondary Voltages and Transformer Turns Ratio
- EL0404 Potential Transformer
- EL0405 Current Transformer
- EL0406 Power Transformer
- EL0407 Transformer Cooling System Characteristics
- EL0408 Types of Transformer Cooling Systems and Their Components
- EL0409 Transformer Cooling System Operations

- EL0410 Transformer Troubleshooting Techniques
- EL0411 Causes of Transformer Failure
- EL0412 Removal of Transformers from Service
- EL0413 Safety Hazards Related to Transformers
- EL0414 Isolation of Plant Main and Auxiliary Transformers
- EL0415 Grounding of Plant Main and Auxiliary Transformers
- EL0416 Return of Transformers to Service

EL05 Freeze Protection

- EL0501 Types of Heat Trace
- EL0503 Self-Limiting Cables
- EL0504 Constant Wattage Heating Cable
- EL0505 Series Resistance Heating Cables
- EL0506 Matching of Types to Applications
- EL0507 Methods of Repair of Freeze Protection Equipment
- EL0508 Heat Transfer Cement
- EL0509 Heat Transfer Tape
- EL0510 Matching of Freeze Protection Equipment Repair to Situation
- EL0511 Plant Antifreeze Panel Locations
- EL0512 Testing of Plant Antifreeze Panels
- EL0513 Methods of Replacing Freeze Protection Equipment

EL06 Battery Chargers

- EL0601 Battery Charger Operation
- EL0602 Principle of Rectification
- EL0603 Procedure for Placing the Battery Charger in Service
- EL0604 Procedure for Removing the Battery Charger from Service

EL07 Motors and Generators

- EL0708 Motor Troubleshooting
- EL0709 Determination of Faulty Major Component of a Motor System
- EL0711 Procedure to Clean a Motor
- EL0712 Motor Disassembly
- EL0713 Motor Reassembly Techniques
- EL0714 Operational Checks to Perform When a Motor is Returned to Service

- EL08** **Electrical Control Devices**
EL0801 Control Device Troubleshooting
EL0802 Faults Associated with Control Devices
EL0803 Components of Control Devices
EL0804 Functions of Control Devices
EL0805 Differences Between A.C. and D.C. Controllers
EL0806 Identification of the Normal Position of a Control Device

- EL09** **Low- and Medium-Voltage Circuit Breakers**
EL0901 Matching of Overload with Selected Type of Load
EL0902 Determination of the Actual Current of a Circuit
EL0903 Procedure to Place All Plant Breakers in Test Position and Test
EL0904 Removal of Arc Chutes on Breakers
EL0905 Procedure to Check Contacts on Breakers

- EL10** **Inverters**
EL1001 Inverter Operation
EL1002 Components of an Inverter
EL1003 Procedure for Placing an Inverter in Service
EL1004 Procedure for Removing an Inverter From Service

- EL11** **Locating Electrical System Grounds**
EL1101 Use of Direct Current (D.C.) Ground Detection Switches
EL1102 Operation of D.C. Breakers
EL1103 Identification of Unwanted Circuit Grounds
EL1104 Elimination of Unwanted Circuit Grounds
EL1105 Equipment Grounding Concepts
EL1106 Testing of Proper Equipment Grounds
EL1107 D.C. Ground Detection

- EL12** **Limitorque Valves**
EL1201 Method of Setting Limit Switches
EL1202 Method of Setting Torque Switches
EL1203 Method of Repairing Limit Switches
EL1204 Method of Repairing Torque Switches
EL1205 Method of Replacing Limit Switches
EL1206 Method of Replacing Torque Switches
EL1207 Stroking a Limitorque Valve Assembly
EL1209 Procedure to Pull an Actuator Off a Valve

- EL13** **Generators**
EL1301 Generator Operating Characteristics
EL1302 Types of Generator Construction

- EL1303** Generator Applications
EL1304 AC and DC Generators
EL1305 Generator Troubleshooting
EL1306 Generator Disassembly and Cleaning
EL1307 Generator Reassembly

- EL14** **Motors**
EL1401 Introduction to Motors
EL1402 AC Motors

Instrumentation and Control (I&C)

Our Instrumentation and Control series contains courses for instrumentation and control technicians.

- IE01** **Direct Current**
IE0101 Electron Theory
IE0102 Use of Ohm's and Kirchoff's Laws Relating to Direct Current (DC)
IE0103 DC Circuit Troubleshooting
IE0104 Evaluation of DC Circuit Performance
IE0105 Determination of Circuit Outputs from Specified Inputs
IE0106 DC Circuit Repair
IE0107 Construction of DC Circuits

- IE02** **Alternating Current**
IE0201 Alternating Current (A.C.) Theory
IE0202 Use of Ohm's and Kirchoff's Laws
IE0203 A.C. Circuit Troubleshooting
IE0204 Evaluation of an AC Circuit's Performance
IE0205 Determination of A.C. Circuit Outputs from Specified Inputs
IE0206 A.C. Circuit Repair
IE0207 Construction of AC Circuits

- IE03** **Semi-Conductors**
IE0301 Electrical Characteristics of Diodes
IE0302 Electrical Characteristics of SCRs and TRIACs
IE0303 Semiconductor Circuit Troubleshooting
IE0304 Identification of Defective Semiconductors
IE0305 Semiconductor Circuit Repair
IE0306 Construction of Semiconductor Circuits

- IE04** **Electronic Circuits**
IE0401 Explain the Theory of Power Supply Circuits
IE0402 Theory of Operational Amplifier Circuits
IE0403 Defective Components Found in Power Supplies

- IE0404** Defective Operational Amplifier Circuits
- IE0405** Electronic Circuit Troubleshooting
- IE0406** Evaluation of the Performance of a Power Supply Circuit
- IE0407** Evaluation of the Performance of an Operational Amplifier Circuit
- IE0408** Electronic Circuit Repair
- IE0409** Determination of Feedback Circuits to Achieve Desired Operational Amplifier Gain
- IE0410** Construction of Electronic Circuits

IE05 Digital Electronics

- IE0501** Constructing Digital Circuits
- IE0502** Digital Numbering Systems
- IE0503** BCD and ASCII Codes
- IE0504** Positive and Negative Logic
- IE0505** Troubleshooting Digital Circuits
- IE0506** Appropriate Digital Circuit Outputs from Specified Inputs
- IE0507** Repairing Digital Circuits

IE06 Instrumentation Measurement Applications

- IE0601** Identification of types of Pressure Devices
- IE0602** Pressure Device Troubleshooting
- IE0603** Principles of Level Devices
- IE0604** Level Device Troubleshooting
- IE0605** Principles of Flow Devices
- IE0606** Flow Device Troubleshooting
- IE0607** Principles of Temperature Devices
- IE0608** Temperature Measuring Device Troubleshooting
- IE0609** Use of Analyzers

IE07 Microprocessors

- IE0701** Introduction to Microprocessor Registers
- IE0702** Introduction to Troubleshooting Microprocessors
- IE0703** Introduction to Microprocessors and Memory
- IE0706** Introduction to Microprocessor Interfacing
- IE0707** Introduction to Programming Microprocessors
- IE0708** Introduction to Understanding Microprocessors

IE08 Programmable Logic Controllers

- IE0801** Identify the Major Components of Programmable Logic Controllers
- IE0802** Understand the Concepts of Programmable Logic Controllers
- IE0803** PLC Status Indicator Lights
- IE0804** Troubleshoot PLC's
- IE0805** Interpreting and Drafting Ladder Logic with Bit Instructions in PLC Systems

IE09

IE0901

IE10

IE1001

IE1002

IE1003

IE1004

IE1005

IE1006

IE1007

IE1008

IE1009

IE1010

IE1011

IE1012

IE1013

IE1014

IE1015

IE1016

IE1017

IE1018

IE1019

IE1020

IE1021

IE1022

IE11

IE1101

IE1102

IE1103

IE1104

IE1105

IE1106

IE1107

IE1110

IE1113

IE1114

IE1115

IE1116

Soldering

Soldering Techniques

Control Instrumentation

Purpose of Square Root Extractors

Operation of Chart Recorders

Functions of Electronic Analog Controllers

Functions of Electronic Pressure Transmitters

Electronic Control Instrument Troubleshooting

Span and Range

Span and Zero Adjustments

Calibration of Electronic Control Instruments

Function of a Pneumatic Volume Booster

Operation of a Pressure Regulator

Operation of Pressure Switches

Pneumatic Control Instrument Troubleshooting

Calibration of Pneumatic Control Instruments

Functions of Temperature Transmitters

Identification of Filled Thermal Systems and Temperature Switches

Calibrate Temperature Control Instruments

Operating Characteristics of Valve Positioners

Calibration of Pneumatic Valve Positioners

Operating Characteristics of I/P and P/I Transducers

Calibration of Transducers

Characteristics of Special Flow Control Instruments

Solenoid Valves

Final Control

Principles of Control Loops

Identification of Instruments Used in Measuring Level

Identification of Instruments Used in Flow Control Loops

Identification of Instruments Used in Pressure Control Loops

Construction of a Pressure, Temperature, Flow, or Level Control Loop

Proportional, Integral, and Derivative Control Action

Tuning a Typical Control Loop

Identification of Instruments used in Temperature Control Loops

Operation of Cascade and Ratio Control Loops

Construction of Special Control Loops

Electronic Control Valves

Electronic Control Valve Troubleshooting and Repair

- IE1117** Feedforward Control
- IE1118** Three Element Level Control
- IE12** **Process Control Instrumentation**
- IE1201** Use of Multimeters
- IE1202** Use of Oscilloscopes
- IE1203** Power Supplies and Signal Generators
- IE1204** Temperature Calibrators and Digital Thermometers
- IE1205** Electrical/Electronic Test Equipment
- IE1206** Explain the Use of Deadweight Testers
- IE1207** Explain the Use of Variators, Aspirator Bulbs, and Hand Pumps
- IE1208** Manometers
- IE1209** Pneumatic Calibrators
- IE1210** Mechanical Test Instruments

- IE13** **Field Devices**
- IE1301** Major Components of an Oil/Gas Ignitor
- IE1302** Oil/Gas Ignitor Troubleshooting and Repair
- IE1303** Major Components of Warm-up Guns
- IE1304** Instrumentation Devices on Warm-up Gun Troubleshooting and Repair
- IE1305** Major Instrument Components on a Pulverizer
- IE1306** Instrumentation Devices on Pulverizer Troubleshooting and Repair
- IE1307** Major Instrumentation Components of a Coal Feeder
- IE1308** Coal Feeder Instrument Troubleshooting and Repair
- IE1309** Pulverizer Inerting System Troubleshooting and Repair
- IE1310** Major Components of Flame Scanning System
- IE1311** Flame Scanner Troubleshooting and Repair
- IE1312** Auxiliary Air Damper Control Troubleshooting and Repair
- IE1313** Insert/Retract Mechanism Troubleshooting and Repair
- IE1314** Impeller Drive Troubleshooting and Repair
- IE1315** Oil and Gas Valve Control Troubleshooting and Repair
- IE1316** Major Components of Oil Guns
- IE1317** Instrumentation Devices on Oil Gun Troubleshooting and Repair

- IE14** **Continuous Emission Monitoring (CEM) Systems**
- IE1401** Basic Operation of the Continuous Emission Monitoring System
- IE1402** Collect CEMS Data Readings
- IE1403** Carbon Dioxide Analyzer Calibration

- IE1404** Nitrogen Oxide Analyzer Calibration
- IE1405** Sulfur Dioxide Analyzer Calibration
- IE1406** Opacity Monitor Calibration
- IE1407** Stack Flowmeter Calibration
- IE1408** Calibration Gas Bottle Change and Input of New Data in EWS
- IE1409** Weekly, Monthly, Quarterly, Semi-Annual, and Annual Preventative Maintenance Procedures
- IE1410** Parts of the Certified Loop
- IE1411** Operation of Probe and Sample System
- IE1412** CEM Probe and Sample System Troubleshooting
- IE1413** Operation of the Megawatts Transmitters
- IE1414** Operation of the Fuel Flow Transmitters

- IE15** **Bailey Pneumatic Meters and Controls**
- IE1501** Procedure for Taking a Meter Out of and Returning It to Service
- IE1502** Ledoux Bell Meter Disassembly, Cleanup, and Calibration
- IE1503** Standatrol Inlet and Exhaust Valve Disassembly, Inspection, and Setup
- IE1504** Uses and Operation of the Bailey Standatrol
- IE1505** Operation of the Bailey Pneumatic Drives and Positioners

- IE16** **Tubing and Fittings**
- IE1601** Tube Bending
- IE1602** Selection of Proper Tubing Fittings for an Application
- IE1603** Installation of Tubing Fittings
- IE1604** Flare Tubing for Flare Fittings
- IE1605** Installation of Tubing Supports and Hangers
- IE1606** Selection of Tubing for Specific Applications

- IE17** **Fire Protection Instrumentation**
- IE1701** Understanding the Instrumentation Used in the Fire Protection System
- IE1702** Troubleshoot and Repair Fire Protection Instruments

Advanced I&C

The courses in this section cover advanced topics relating to the job duties of an I&C tech.

- AC** **Process Control**
- AC01** Process Control Fundamentals
- AC02** Closed and Open Loop Control Systems
- AC03** Proportional Control



AC04	Proportional Plus Integral Control
AC05	Proportional Plus Derivative Control
AC06	Proportional Plus Integral Plus Derivative Control
AC07	Open Loop Transient Response Tuning
AC08	Ziegler Nichol Controller Tuning
AC09	Frequency Response Controller Tuning
AC10	Advanced Controller Methods
AC11	Final Control Actuators
AC12	Final Control Elements

AI Control Instruments

AI01	Criteria for Control Instruments
AI02	Characteristics of Control Instruments
AI03	Controller and Control Action
AI04	Calibration of Control Instruments
AI05	Support Instruments

AM Measurement Devices

AM01	Pressure Measurement
AM02	Pressure Measuring Instruments
AM03	Liquid Level Measurement
AM04	Flow Measurement
AM05	Temperature Measurements
AM06	Analyzers for Process Control

AT Testing

AT01	Instrumentation and Control
AT02	Multimeters
AT03	Oscilloscopes
AT04	Portable Power Supply
AT05	Temperature Measurement
AT06	Voltage Testers
AT07	Deadweight Testers
AT08	Calibrating Other Instruments
AT09	Manometers
AT10	Pneumatic Calibrators
AT11	Mechanical and Pneumatic Testing and Calibrating

Mechanical Maintenance

The Mechanical Maintenance series contains lessons designed for technicians focused on maintenance of mechanical equipment.

MM01 Centrifugal Pump Maintenance

MM0101	Principles of Centrifugal Pump Operation
MM0104	Centrifugal Pump Components
MM0105	Centrifugal Pumps in Power Plants
MM0107	Centrifugal Pump Disassembly

MM0108	Centrifugal Pump Inspection
MM0109	Identification of Defective Parts in Centrifugal Pumps
MM0110	Centrifugal Pump Reassembly
MM0112	Horizontal Single-Stage, Centrifugal Pump Overhaul
MM0113	Horizontal Multi-Stage Centrifugal Pump Overhaul
MM0114	Vertical Single-Stage Centrifugal Pump Overhaul
MM0115	Vertical Multi-Stage Centrifugal Pump Overhaul

MM02 Bearing Maintenance and Lubrication

MM0201	Lubrication for Sliding and Rolling Surfaces
MM0202	Types and Uses of Lubricants
MM0203	Identification of Lubrication Characteristics by Bearing Types
MM0204	Proper Lubrication Techniques
MM0205	Loading and Bearing Types
MM0206	Bearing Selections
MM0207	Bearings by Type
MM0209	Bearing Operating Characteristics
MM0210	Sliding Surface Bearings
MM0211	Principles of Rolling Contact Bearings
MM0212	Bearing Component Matching by Type
MM0213	Identification of Seals Used with Bearings
MM0214	Use of Seals
MM0215	Removal of Sliding Surface Bearings
MM0216	Installation of Sliding Surface Bearings
MM0217	Bearing Disassembly
MM0219	Sliding Surface/Rolling Contact Bearing Inspection
MM0220	Bearing Inspections
MM0221	Sliding Surface and Rolling Contact Bearing Repair Procedures
MM0222	Replacement of Defective Parts
MM0223	Removal of Rolling Contact Bearings
MM0224	Installation of Rolling Contact Bearings

MM03 Pedestal Grinder

MM0301	Grinding Wheel Dressing and Truing
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MM04 Surface Grinder

MM0401	Grinding of Parts Parallel and to Size
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MM05 Band Saw

MM0501	Saw to Layout Lines on a Band Saw
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MM06 Piping

MM0601	Piping and Instrumentation Drawing Symbols
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- MM0602** Interpreting Piping and Instrumentation Drawings
- MM0603** Types of Piping
- MM0604** Piping Applications
- MM0605** Fittings
- MM0606** Pipe Hangers and Support Systems
- MM0607** Pipe Hanger and Support System Operation
- MM0608** Pipe Joining Methods
- MM0609** Fitting Applications
- MM0610** Pipe Joining Applications
- MM0611** Pipe Joining Methods Explained
- MM0612** Use of Pipe Fittings
- MM0613** Erecting Piping Runs
- MM0614** Piping Symbols

MM07 Gaskets and O-Rings

- MM0701** Gasket Creation
- MM0702** O-Ring Creation
- MM0703** O-Ring Selection
- MM0704** Removal of Sealing Mediums
- MM0705** Installation of Sealing Mediums

MM08 Heat Exchangers

- MM0801** Principles of Heat Exchanger Operation
- MM0802** Heat Exchanger Types and Characteristics
- MM0803** Heat Exchanger Testing
- MM0804** Heat Exchanger Inspections
- MM0805** Heat Exchanger Repairs
- MM0806** Heat Exchanger Tube Cleaning
- MM0807** Removal and Replacement of Heat Exchangers
- MM0808** Gauge Glass Repair

MM09 Coupling and Shaft Alignment

- MM0901** Measurement of Coupling Hubs for Outside Diameter (O.D.) Offset and Face Angular Misalignment
- MM0902** Procedure for Shimming to Compensate for Angular Face and Offset (O.D.) Misalignment
- MM0903** Alignment with Straight Edge and Taper Gauge
- MM0904** Indicator Bar Sag Prevention Techniques
- MM0905** Dial Indicator Setup and Graph Paper Plotting
- MM0906** Determination of Misalignment Conditions
- MM0907** Alignments to within 0.002 Inch Tolerance
- MM0908** Rim and Face Formulas
- MM0909** Setup of Alignment Equipment to Instruction Booklet Specifications
- MM0910** Calculation of the Formula to Determine Repositioning
- MM0911** Alignment for Vertical and Horizontal Misalignment
- MM0912** Reverse Alignment

MM10 Rigging and Lifting Practices

- MM1001** Proper and Safe Usage of Scaffolding
- MM1002** Selection Scaffolding Components for Their Correct Usage
- MM1003** Scaffolding and Stay Assembly
- MM1004** Scaffolding and Stay Disassembly
- MM1005** Safe Usage of Personnel Lifting Devices
- MM1008** Proper Use of the "Riggers" Handbook
- MM1009** Safe Working Loads for Various Types of Slings and Hardware
- MM1010** Types of Rigging and Lifting Equipment
- MM1011** Inspecting the Rigging Equipment
- MM1012** Planning a Rigging and Lifting Job
- MM1014** Proper Use of Rigging and Lifting Equipment
- MM1015** Safe Performance of Lifts Using Manually-Operated Lifting Devices
- MM1016** Safe Performance of Lifts Using Electric-Powered Lifting Devices
- MM1017** Safe Performance of Lifts Using Hydraulic-Powered Lifting Devices
- MM1018** Safe Performance of Lifts with Air-Operated Lifting Devices
- MM1019** Safe Performance of Lifts with a Mobile Crane
- MM1020** Safe Movement of Materials/Equipment with a Mobile Crane
- MM1021** Safe Performance of Lifts with a Boom Truck
- MM1022** Safe Movement of Materials/Equipment with a Boom Truck
- MM1024** Scaffolding Terminology
- MM1025** Types of Scaffolds

MM11 Precision Measurement

- MM1101** Fractional Inch Graduations - Steel Rule
- MM1102** Outside Micrometer Thimble Ratchet Use
- MM1103** Precision Measuring "Feel"
- MM1104** Micrometer "Zero" Calibration
- MM1105** Outside Micrometer Measurements
- MM1106** Measuring Device Orientation
- MM1107** Vernier Scale Readings
- MM1108** Measuring with a Vernier Caliper
- MM1109** Measuring with an Inside Micrometer
- MM1110** Measuring with a Small Hole Gauge
- MM1111** Errors in Transferring Measurements
- MM1112** Measuring with a Telescoping Gauge
- MM1113** Measuring with a Depth Rule and a Depth Micrometer
- MM1115** Measuring with a Protractor
- MM1116** Measuring with a Dial Indicator
- MM1118** Measuring with a Radius Gauge

- MM1119** Measuring with a Thickness Gauge and a Taper Gauge
- MM1121** Checking Concentricity
- MM1122** Measuring with a Screw Pitch Gauge and a Thread Micrometer
- MM1124** Measuring with a Dial Caliper
- MM1126** Using a Go/No Go Gauge

MM12 Conveyor Belt Maintenance

- MM1201** Types of Conveyors
- MM1202** Plant Conveyor Usage
- MM1203** Conveyor Adjustments
- MM1204** Conveyor Adjustment Techniques
- MM1205** Conveyor Fastening/Connecting Methods
- MM1207** Conveyor Misalignment Safeguards
- MM1208** Drive Belts Used in the Plant
- MM1209** Use of Drive Belts (V-Belts, Gear Belts, Flat Belts)
- MM1210** Sheaves Used in the Plant
- MM1211** Use of Sheaves in the Plant
- MM1212** Drive Belt Adjustments
- MM1213** Drive Belt Replacement
- MM1214** Feeder Belt Replacement
- MM1216** Conveyor Component Replacement
- MM1217** Conveyor Component Repair

MM13 Valve Maintenance

- MM1301** Valve Theory
- MM1302** Valve Types and Characteristics
- MM1306** Sealing Mediums Used in Valves
- MM1307** Valve Disassembly
- MM1308** Valve Inspections
- MM1309** Replacement of Defective Parts that are Critical in Valves
- MM1310** Valve Part and Component Repair
- MM1311** Valve Reassembly
- MM1312** Globe Valve Overhaul
- MM1313** Gate Valve Overhaul
- MM1314** Safety Valve Overhaul
- MM1315** Relief Valve Overhaul
- MM1316** Ball Valve Overhaul
- MM1317** Plug Valve Overhaul
- MM1318** Diaphragm Valve Overhaul
- MM1319** Butterfly Valve Overhaul
- MM1320** Check Valve Overhaul
- MM1321** Control Valve Overhaul
- MM1324** Replacement of Defective Parts

MM14 Positive Displacement Pump Maintenance

- MM1401** Positive Displacement Pumps
- MM1404** Positive Displacement Pump Applications
- MM1405** Positive Displacement Pump Disassembly
- MM1406** Positive Displacement Pump Reassembly
- MM1407** Visual Inspection on Positive Displacement Pumps
- MM1408** Defective Part Replacement
- MM1409** Overhaul a Positive Displacement Pump
- MM1412** Piston Pump Overhaul
- MM1413** Diaphragm Pump Overhaul
- MM1414** Lobe Pump Overhaul
- MM1415** Vane Pump Overhaul
- MM1416** Liquid Ring Pump Overhaul
- MM1417** Shaft and Pumping Element Repair

MM15 Drill Press

- MM1501** Procedure to Drill Holes to Layout Lines
- MM1502** Procedure to Drill Holes Through the Center of Round Stock
- MM1503** Procedure to Countersink, Counterbore, and Spotface on a Drill Press
- MM1504** Procedure to Ream Holes to Size on a Drill Press
- MM1505** Tap Types and Thread Classifications
- MM1506** Procedure to Tap Holes Using a Drill Press
- MM1507** Selection of Correct Speed to Drill Size and Material

MM16 Air Compressor Maintenance

- MM1601** Compressor Theory and Classifications
- MM1602** Operating Characteristics of Selected Compressors
- MM1603** Positive Displacement Compressor Components
- MM1604** Positive Displacement Screw Compressor "Wet" or "Dry" Type
- MM1605** Matching Characteristics of Compressors to Applications
- MM1606** Air Compressor Intercoolers
- MM1607** Air Compressor Aftercoolers
- MM1608** Compressors with Dryers
- MM1609** Air Compressor Sealing Mediums
- MM1610** Air Compressor Disassembly
- MM1611** Air Compressor Inspections
- MM1612** Replacement of Defective Parts on Air Compressors
- MM1613** Air Compressor Reassembly
- MM1614** Single Stage Piston Air Compressor Overhaul
- MM1615** Multi-Stage Piston Air Compressor Overhaul

MM1616	Screw Type Air Compressor Overhaul
MM1617	Shaft and Impeller Repair
MM1618	Positive Displacement Reciprocating Compressor Components
MM17	Fluid Power (Hydraulics)
MM1701	Incompressibility of Fluids
MM1702	Basic Components Common to Fluid Power Systems
MM1703	Fluid Power System Diagramming
MM1704	Purpose of Actuators
MM1705	Basic Operations of an Actuator
MM1706	Fluid Power System Control Valves
MM1707	Valve Operation in Fluid Power Systems
MM1708	Functions of Valves in Fluid Power Systems
MM1709	Purpose of Accumulators
MM1710	Types of Accumulators
MM1711	Identification of Fluid Power Pumps
MM1712	Operating Principles of Fluid Power Pumps
MM1713	Fluid Power Pump Applications
MM1714	Fluid Power Pump System Routine Maintenance
MM1715	Identification of Fluid Power Motors
MM1716	Operating Principles of Fluid Power Motors
MM1717	Fluid Power Motor Applications
MM1718	Fluid Power Motor Routine Maintenance
MM1719	Identification of Fluids and Additives Used in Hydraulic Systems
MM1720	Fluid Characteristics
MM1721	Fluid Applications
MM1722	Fluid Power System Reservoirs
MM1723	Purpose of Filters
MM1724	Hydraulic System Heat Exchangers
MM1725	Fluid Power System Vendors Manuals
MM1726	Identification of Fluid Power Component Malfunctions
MM1727	Fluid Power System Problems and Possible Remedies
MM1729	Location of Various Components of a Fluid Power System
MM1730	Types of Repairs Made to Selected Fluid Power Components
MM1731	Replacement of Parts and Fluid Power Components
MM1732	Fluid Power Component Replacement
MM1733	Stacker Reclaimer Hydraulic System
MM1734	Rotary Car Dumper Hydraulic System
MM1735	Bowl Mill Hydraulic System
MM1736	Fluid Power System Routine Maintenance Activities

MM18 Layout/Bench Work

MM1801	Rough Layout of a Workpiece
MM1802	Precision Layout of a Workpiece
MM1803	Sawing Stock with a Hand Hacksaw
MM1804	Straight and Draw Filing of Metal
MM1805	Sizing Holes with Hand Reams
MM1806	Tapping Threads by Hand
MM1807	Hand Methods of Deburring Parts
MM1808	Hand Methods of Removing Broken Studs
MM1809	Cutting Threads by Hand Using a Threading Die and Tap
MM1810	Broaching a Keyway Using an Arbor Press
MM1811	Operate a Powered Keyway Cutter
MM1812	Cutting Threads by Machine Using a Threading Die

MM19 Lathes

MM1901	Grind a Right Hand Turning tool
MM1902	Operator Control of Engine Lathe
MM1903	Remove and Install Chucks and Face Plates with Cam Locks
MM1904	Rough Centering Work in a 4-Jaw Chuck
MM1905	Facing in a Chuck
MM1906	Center Drilling in Chucks and Collets
MM1907	Alignment of Lathe Centers
MM1908	Mount Workpieces Between Centers
MM1909	Straight Turning Between Centers
MM1910	Knurling a Workpiece
MM1911	Taper Turning with Tailstock Off-Set Method
MM1912	Straight Turning Work Held in a Chuck on an Engine Lathe
MM1913	Precision Centering Work in a 4-Jaw Chuck
MM1914	Cutting Steep Tapers and Chamfers
MM1915	Drilling on a Lathe
MM1916	Machine Reaming on a Lathe
MM1917	Parting and Grooving on a Lathe
MM1918	Grind a 60 Degree Threading Tool
MM1919	Cutting External Unified Standard Screw Threads
MM1920	Grind a Radius Tool
MM1921	Grind a Round Nose Form Tool
MM1922	Radius and Fillet Turning
MM1923	Boring on a Lathe
MM1924	Cut Internal Unified Standard Screw Threads
MM1925	Center Drill Work Between Centers
MM1926	Grind a Right Hand Facing Tool
MM1927	Taper Turning on a Lathe with a Taper Attachment
MM1928	Mount, Face, and Turn Work on Mandrel
MM1929	Reverse the Jaws in a 4-Jaw Independent Chuck

- MM1930** Change the Jaws in a 3-Jaw Universal Chuck
- MM1931** Reverse the Jaws in a 3-Jaw Universal Chuck with Cap Screw Mounted Jaws
- MM1932** Use a Steady Rest
- MM1933** Straighten a Shaft

MM20 Vertical Milling Machine

- MM2001** Vertical Milling Operations Control Familiarity
- MM2002** Install and Remove a Collet and End Mill
- MM2003** Align Spindle Perpendicular to the Table
- MM2004** Mount and Align a Vise on the Mill Table
- MM2005** Square a Workpiece Clamped to the Mill Table
- MM2006** Square a Workpiece Held in a Vise on Vertical Mill
- MM2007** Locating, Drilling, and Reaming Holes by Coordinated Method
- MM2008** Locate and Bore Holes by Coordinated Method
- MM2009** Step Drill Holes Accurately to Size
- MM2010** Mill a Slot or Pocket
- MM2011** Countersinking, Counterboring, and Spotfacing
- MM2012** Mill a Square on a Workpiece
- MM2013** Mill a Hexagon on a Workpiece
- MM2014** Machine a Flat Surface Using a Flying Cutter
- MM2015** Mill Multi-Level Surfaces
- MM2016** Mill a Fillet With Ball End Mill

MM21 Welding

- MM2101** How Cutting Tip Size is Selected to Obtain a Neutral Flame
- MM2102** Proper Setup for Oxy-Acetylene Cutting Equipment
- MM2103** Safe Usage of Oxy-Acetylene Cutting Equipment
- MM2104** Oxy-Acetylene Cutting
- MM2105** Proper Flame Settings in Relation to Welding Tip Size and Material Thickness
- MM2106** Setting Proper Oxy-Acetylene Flame for Fusion Welding
- MM2107** Matching Proper Filler Metals to Base Metals
- MM2108** Matching of Filler Metal Requirements to Base Metals for Fusion Welding
- MM2109** Oxy-Acetylene Fusion Welding on Carbon Steel
- MM2110** Flame Setting for Oxy-Acetylene Brazing for Various Silver Alloy Fillers
- MM2111** Reducing/Carburizing of the Flame for Brazing Various Metal Alloys
- MM2112** Matching of Proper Filler Metals to Base Metals to Achieve Strength and Integrity
- MM2113** Matching of Filler Metals for Brazing to Various Types of Base Metals
- MM2114** Oxy-Acetylene Brazing on Various Metal Alloys
- MM2115** Proper Flame Setting for Braze Welding Various Thickness of Carbon Steel and Cast Irons
- MM2116** Braze Welding Various Joint Configurations

- MM2117** Proper Braze Welding of Various Bead Configurations
- MM2118** Braze Welding on Various Base Metal Types
- MM2119** Matching of Braze Welding Filler Metals with Various Base Metals
- MM2120** Oxy-Acetylene Braze Welding on Carbon Steel and Cast Iron Base Metals
- MM2121** Shielded Metal Arc Welding on Carbon Steel Plate to A.W.S.-BU-2A Prequalified Joint Weld Procedures
- MM2122** Shielded Metal Arc Welding on Carbon Steel Pipe
- MM2123** Shielded Metal Arc Welding on Carbon Steel Pipe with Gas Tungsten Arc Welding Root
- MM2124** SMAW on Carbon Steel Tube, Gas Tungsten Arc Welding for Root with Carbon Steel Filler
- MM2125** Gas Tungsten Arc Welding on Carbon Steel Tube with Stainless Steel Filler
- MM2126** Electric Arc Welding Process for Welding in Various Positions
- MM2127** Electric Arc Welding Filler Metal Selection Based on Positions
- MM2128** Matching of Electric Arc Welding Filler Metals to Their Application Positions
- MM2129** Selection of Electric Arc Filler Metals Based on Application and Positions
- MM2130** Welding Positions and Their Orientations
- MM2131** Usage of Polarities (DC) and Current Flow in Electric Arc Welding with Covered Electrodes
- MM2132** Setup of Electric Arc Welding Equipment for SMA Welding in Both Polarities on Steel Plate
- MM2133** Welding Positions and Their Orientations for Pipe Welding
- MM2134** Setup of Pipe Coupons for SMA Welding in the 2G, 5G, and 6G Fixed Pipe Positions
- MM2135** Fit-Up Procedures for Chill Rings on Selected Size Pipes
- MM2136** Fit-Up Procedures for Chill Rings on Various Pipe Sizes
- MM2137** Differences between Mild Carbon Steel Filler Metals and Stainless Steel Filler Metals
- MM2138** Differences in Weldability between Carbon Steel and Stainless Steel
- MM2139** Explain the Setup of GTAW Equipment for Straight Polarity Welding with Argon Shielding Gas
- MM2140** Demonstrate Setup of GTAW Equipment for Straight Polarity Welding with Argon Shielding Gas
- MM2141** Joint Fit-Up Procedure for Welding Proper Size GTAW Root Pass on Pipe
- MM2142** Proper Joint Fit-Up Procedure for Welding GTAW Root Pass on Pipe
- MM2143** Argon Backing Gas Purge Systems for Root Protection Against "Sugaring" Pipe
- MM2144** Electric Arc Welding Process for Welding in the Flat Position

MM2145 Electric Arc Welding Filler Metal Selection Based on the Flat Position

MM2146 Matching of Electric Arc Welding Filler Metal Application to the Flat Position

MM22 Lubrication Maintenance and Oil Analysis

MM2201 Fundamentals of Lubrication

MM2202 Lubrication Sampling Fundamentals

MM2203 Maintenance, Purification, and Filtration of Oil and Grease Lubricated Systems

MM2204 Failure Mode Indicators

MM2205 Lubricant Testing and Analysis

MM23 Laser Aided Shaft Alignment

MM2301 Shaft Alignment

MM2302 Identifying and Correcting Soft Foot

MM2303 Shaft Alignment Using Laser Based Systems

MM2304 Laser Alignment Safety and System Operating Information

MM2305 Laser Alignment Troubleshooting

MM2306 The Function of Couplings and Major Coupling Types

MM24 Hand Tools

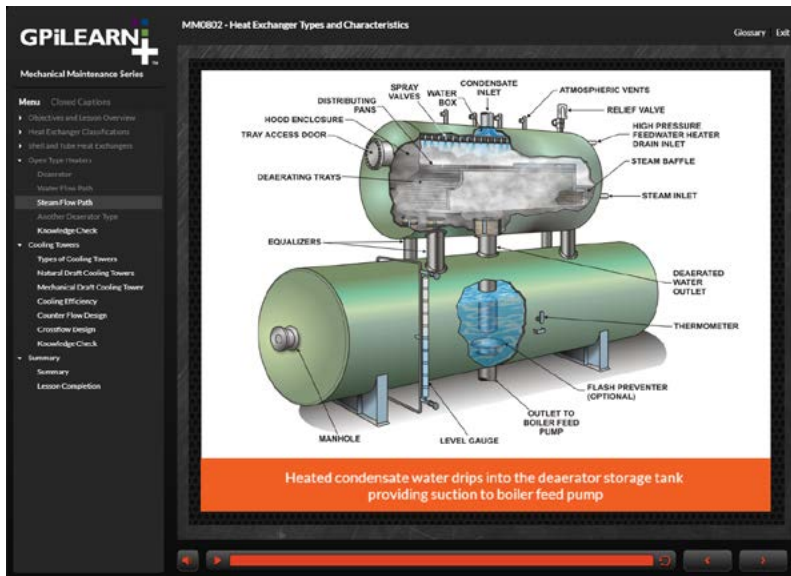
MM2401 Non-powered Hand Tools - Part 1

MM2402 Non-powered Hand Tools - Part 2

MM2403 Power Tools

MM2404 Measuring Tools

MM2405 Fasteners



Lesson:
MM0802 - Heat Exchanger Types and Characteristics

Series:
Mechanical Maintenance

Description:
This lesson provides an overview of commonly used types of heat exchangers and identifies their specific design characteristics.

Power Generation

The series in this section provide foundational knowledge for anyone working in the power generation industry.

Power Fundamentals

The Power Fundamentals series contains various courses that focus on theoretical and systems training for power plant workers.

PF01 Safety

- PF0101 Plant Hazards and Protective Gear
- PF0102 Basic First Aid
- PF0103 Fire Protection
- PF0104 Work Authorizations and Material Safety Data Sheets

PF02 Introduction to Power Generation

- PF0201 Energy Conversion Process
- PF0202 Combustion System Components
- PF0203 Fluidized Bed Combustion
- PF0204 Boiler Water and Steam Cycle
- PF0205 Basic Turbine Overview
- PF0206 Plant Auxiliary Systems
- PF0207 Introduction to Power Plant Efficiency and Heat Rate

PF03 Physical Properties

- PF0301 Units of Measurements
- PF0302 Pressure
- PF0303 Energy
- PF0304 Phases of Matter

PF04 Combustion Basics

- PF0401 Fuels
- PF0402 Chemistry of Combustion
- PF0403 Heat Transfer

PF05 Ash Removal (Boiler Plants)

- PF0501 Introduction to Ash Handling
- PF0502 Bottom Ash Removal System
- PF0503 Fly Ash Handling System

PF06 Combustion Turbine (LM2500)

- PF0601 Combustion Turbines (LM2500)
- PF0602 Major Components of the LM2500 Gas Turbine
- PF0603 Gas Turbine and Control Oil Systems
- PF0604 Air Inlet, Fuel Supply, and Water Injection Systems

PF07

- PF0701 Combustion Turbine (Frame 6)
- PF0702 Starting Systems and Auxiliary Air Systems
- PF0703 Lube, Hydraulic & Control Oil Systems
- PF0704 Combustion Components and Fuel Systems
- PF0705 Generator Operations

PF08

- PF0801 Combustion Turbine (Frame 7EA)
- PF0802 Starting System and Auxiliary Air Systems
- PF0803 Lube, Hydraulic, and Control Oil Systems
- PF0804 Combustion Components and Fuel Systems
- PF0805 Generator Support Systems

PF09

- PF0901 Combustion Turbine V84 (4000F)
- PF0902 Combustion Turbine Generator Starting and Air System
- PF0903 Lube, Shaft, and Control Oil System and Turning Gear
- PF0904 Fuel System
- PF0905 Combustion Turbine Control

PF10

- PF1001 Steam Drums (Rankine/Boiler)
- PF1002 Waterwall Circulation, Superheaters, and Drains
- PF1003 Economizer, Reheater, Gas Flow, Attemperation, Sootblowing

PF11

- PF1101 HRSG Steam Drums
- PF1102 HRSG Flowpaths and Components
- PF1103 HRSG Auxiliary Systems

PF12

- PF1201 Condenser & Circulating Water
- PF1202 Pumps
- PF1203 Feedwater Components & Cycle Operation

PF13

- PF1301 Compressed Air & Plant Cooling Systems
- PF1302 Valves, Traps & Piping

Combustion Turbine (Frame 6)

- Combustion Turbine (Frame 6)
- Starting Systems and Auxiliary Air Systems
- Lube, Hydraulic & Control Oil Systems
- Combustion Components and Fuel Systems
- Generator Operations

Combustion Turbine (Frame 7EA)

- Combustion Turbine (Frame 7EA)
- Starting System and Auxiliary Air Systems
- Lube, Hydraulic, and Control Oil Systems
- Combustion Components and Fuel Systems
- Generator Support Systems

Combustion Turbine V84 (2000E)

- Combustion Turbine V84 (4000F)
- Combustion Turbine Generator Starting and Air System
- Lube, Shaft, and Control Oil System and Turning Gear
- Fuel System
- Combustion Turbine Control

Boiler (Plant Boilers)

- Steam Drums (Rankine/Boiler)
- Waterwall Circulation, Superheaters, and Drains
- Economizer, Reheater, Gas Flow, Attemperation, Sootblowing

Heat Recovery Steam Generators (Combined Cycle Plants)

- HRSG Steam Drums
- HRSG Flowpaths and Components
- HRSG Auxiliary Systems

Steam/Water Cycle

- Condenser & Circulating Water
- Pumps
- Feedwater Components & Cycle Operation

Plant Systems

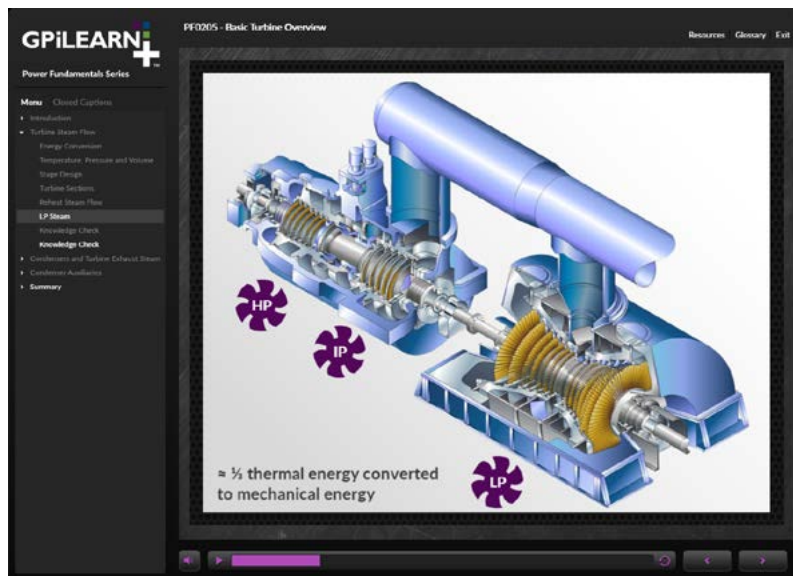
- Compressed Air & Plant Cooling Systems
- Valves, Traps & Piping

PF14 Steam Turbines

- PF1401 Turbine Auxiliaries Overview
- PF1402 Thermal/Mechanical Understanding
- PF1403 Turbine Operation

PF20 Emissions Control (Gas Turbines)

- PF2001 The Environment
- PF2002 Catalysts
- PF2003 Steam and Water Injection Systems
- PF2004 Water Pollution



Lesson:

PF0205 - Basic Turbine Overview

Series:

Power Fundamentals

Description:

This lesson discusses basic turbine operations and explains the functions of the different components associated with a steam turbine.

PF15 Generators and Basic Electricity

- PF1501 Practical Basic Electricity
- PF1502 AC Electricity and Generators
- PF1503 Basic Generator / Exciter Operation

PF16 Plant Electrical Systems

- PF1601 Station Service Systems and Transformers
- PF1602 Circuit Breakers
- PF1603 General Relaying
- PF1604 Motors

PF17 Plant Instrumentation and Controls

- PF1701 Power Plant Controls
- PF1702 Understanding Control Loops
- PF1703 Field Devices

PF18 Water Treatment

- PF1801 Introduction to Chemistry
- PF1802 Water Treatment System Components
- PF1803 Scale, Deposit, and Fouling
- PF1804 Demineralization

PF19 Pollution Control (Boiler Plants)

- PF1901 The Environment
- PF1902 Particulate Removal Equipment
- PF1903 Gaseous Emissions Control
- PF1904 Water Pollution

PF21 Plant Performance

- PF2101 Introduction to Performance
- PF2102 Boiler Efficiency
- PF2103 Turbine Cycle Performance
- PF2104 Miscellaneous Losses

PF22 LM6000 Combustion Turbine

- PF2201 LM6000 Combustion Turbine Overview
- PF2202 LM6000 Main Components
- PF2203 LM6000 Combustion Turbine Generator
- PF2204 LM6000 Support Systems (Part 1)
- PF2205 LM6000 Support Systems (Part 2)
- PF2206 LM6000 Operations and Maintenance (Part 1)
- PF2207 LM6000 Operations and Maintenance (Part 2)
- PF2208 LM6000 Performance and Reliability
- PF2209 LM6000 Control System

PF23 Coal Fundamentals

- PF2301 Introduction to Coal Handling
- PF2302 Unloading Rail Delivered Coal
- PF2303 Unloading Barge Delivered Coal
- PF2304 Coal Conveyors
- PF2305 Stackout, Reclaim, and Coal Pile Management
- PF2306 Crushers and Trippers
- PF2307 Railyard Operation

- PF24** **Zero Liquid Discharge Systems**
- PF2401** Introduction to Zero Liquid Discharge Systems
- PF2402** Brine Concentrator Systems
- PF2403** Crystallizer Systems
- PF2404** ZLD System Decanter Centrifuges

- PF25** **Heating and Air Conditioning**
- PF2501** Introduction to Air Conditioning

Boiler Water Chemistry

Our Boiler Water Chemistry series contains many courses for plant chemists, lab technicians, and plant operators.

- BC01** **Chemistry Fundamentals**
- BC0101** Matter and Energy
- BC0102** The Periodic Table
- BC0103** Chemical Bonds, Formulas and Equations
- BC0104** Chemistry of Water Solutions

- BC02** **Corrosion**
- BC0201** Corrosion and Scale
- BC0202** Corrosion Types
- BC0203** Corrosion Control Methods

- BC03** **Makeup Water Treatment**
- BC0301** Water Sources
- BC0302** Clarification, Filtration, and Softening
- BC0303** Ion Exchange
- BC0304** Membrane Technologies

- BC04** **Boiler Water Treatment**
- BC0401** Boiler Water Treatment

- BC05** **Cooling Water Guidelines**
- BC0501** Cooling Water Guidelines

Combined Cycle

The GE Frame 7F & Siemens 501F Combined Cycle Plants series contains courses covering the technologies installed at many combined cycle power plants.

- CC1** **Introduction to Combined Cycle Power Generation**
- CC11** Combined Cycle Fundamental Theory and Operation

- CC12** Cycle Parameters and Their Impact on Plant Performance
- CC13** Benefits of the Combined Cycle
- CC14** Fuels for Combined Cycle Power Plants

Gas (Combustion) Turbine Generator

- CC21G** GE Frame 7F Gas Turbine Generator Introduction
- CC22GA** GE Frame 7F Gas Turbine Main Components (Part 1)
- CC22GB** GE Frame 7F Gas Turbine Main Components (Part 2)
- CC23G** GE Frame 7F Gas Turbine Generator
- CC24GA** GE Frame 7F Gas Turbine Support Systems (Part 1)
- CC24GB** GE Frame 7F Gas Turbine Support Systems (Part 2)
- CC25GA** GE Frame 7F Gas Turbine Operations and Maintenance Considerations (Part 1)
- CC25GB** GE Frame 7F Gas Turbine Operations and Maintenance Considerations (Part 1)
- CC26G** GE Frame 7F Gas Turbine Performance and Reliability

Siemens 501F Combustion Turbine Support Systems

- CC2S**
- CC21S** Siemens 501F Combustion Turbine
- CC22SA** Siemens 501F Combustion Turbine Main Components - Part 1
- CC22SB** Siemens 501F Combustion Turbine Main Components - Part 2
- CC23S** Siemens 501F Combustion Turbine Generator
- CC24SA** Siemens 501F Combustion Turbine Support Systems - Part 1
- CC24SB** Siemens 501F Combustion Turbine Support Systems - Part 2
- CC25SA** Siemens 501F Combustion Turbine Operations and Maintenance Considerations - Part 1
- CC25SB** Siemens 501F Combustion Turbine Operations and Maintenance Considerations - Part 2
- CC26S** Siemens 501F Combustion Turbine Performance and Reliability
- CC27S** Siemens 501F TXP Control System

Heat Recovery Steam Generator (HRSG)

- CC3**
- CC31** HRSG Overview, Principles, and Flow paths
- CC32** HRSG Major Components
- CC33** HRSG Water Chemistry Control and SRC and Non-SRC NOx Control Overview

Steam Turbine Generator

- CC4**
- CC41** Steam Turbine Principles, Components, and Support Systems
- CC42** Steam Turbine Generator



- CC43A** Turbine Starting and Loading Instructions - Part I
- CC43B** Turbine Starting and Loading Instructions - Part II

CC5 Combined Cycle Plant Controls

- CC51** Gas Turbine Controls
- CC52** Heat Recovery Steam Generator Controls
- CC53** Steam Turbine Controls
- CC54** Generator Controls
- CC55** GE Mark V/VI Control Systems

CC6 Integrated Combined Cycle Plant Operation

- CC61** Startup Considerations
- CC62** Operating Modes
- CC63** Abnormal Plant Operations
- CC64** Shutdown of Combined Cycle Plants
- CC65** Layout

Combustion Turbine 50hz

The Combustion Turbine series contains courses on various 50 Hz gas/combustion turbines.

CT01 GE 9FA Gas Turbine

- CT0101** Introduction to Gas Turbines (GE 9FA)
- CT0102** GE Frame 9FA Gas Turbine Main Components (Part 1)
- CT0103** GE Frame 9FA Gas Turbine Main Components (Part 2)
- CT0104** GE Frame 9FA Gas Turbine Generator
- CT0105** GE Frame 9FA Gas Turbine Support Systems (Part 1)
- CT0106** GE Frame 9FA Gas Turbine Support Systems (Part 2)
- CT0107** GE Frame 9FA Gas Turbine Operations and Maintenance Considerations (Part 1)
- CT0108** GE Frame 9FA Gas Turbine Operations and Maintenance Considerations (Part 2)
- CT0109** GE Frame 9FA Gas Turbine Performance and Reliability

CT02 V94.3 (SCT5-4000F) Combustion Turbine

- CT0201** Introduction to Combustion Turbines (SGT5-4000F / V94.3)
- CT0202** Combustion Turbine Generator Starting and Air System
- CT0203** Lube, Shaft, and Control Oil System and the Turning Gear
- CT0204** Fuel Systems
- CT0205** Combustion Turbine Control

CT03 V94.2 (SGT5-2000E) Combustion Turbine

- CT0301** Introduction to Combustion Turbines (SGT5-2000E / V94.2)

- CT0302** Combustion Turbine Generator Starting and Air Systems

- CT0303** Lube, Shaft, and Control Oil System and the Turning Gear

- CT0304** Fuel Systems

- CT0305** Combustion Turbine Control

Material Handling

Our Material Handling series contains several courses for coal and material handling personnel.

CY01 Sump Pumps

- CY0101** Sump Pump Function
- CY0102** Sump Pump Components
- CY0103** Power Sources
- CY0104** Sump Pump Isolation

CY02 Magnetic Separators

- CY0201** Function of Magnetic Separator
- CY0202** Function of Major Components of Magnetic Separator
- CY0203** Identify Power Sources (MCC)

CY03 Coal Yard Fire Protection Systems

- CY0301** Function of Fire Protection System in the Coal Yard
- CY0302** Function of the Major Components of the Fire Protection System in the Coal Yard
- CY0303** Function of the Fire System Bypass Switch
- CY0304** D.C. Power Normal and Alternate Supply
- CY0305** Fire Protection System Equipment Power Sources
- CY0306** Hazards Associated with Extinguishing Coal Fires in Open and Enclosed Areas

CY04 Crushers

- CY0401** Penn Crusher Operating Limitations as Dictated by Coal Conditions
- CY0402** Safety Precautions Associated with the Penn Crusher

CY05 Rotary Car Dumpers

- CY0501** Equipment Walkdown/Checkoff
- CY0502** Check, Add, and Identify Proper Lubricants for All Components
- CY0503** Power Supply Locations
- CY0504** Operate Sump Pumps
- CY0505** Housekeeping Activities
- CY0506** Deficiencies Specific to this Equipment
- CY0507** Dust Suppression System Operation
- CY0508** Rotary Car Dumper Startup and Shutdown Procedures



- CY0509** Safety Precautions Associated with Equipment
- CY0510** Basic Dumper/Positioner Operation
- CY0511** Rotary Dumper Interlocks
- CY0512** Procedure for Coupling and Uncoupling Railroad Cars
- CY0513** Observations/Inspections Made During Unloading Operations
- CY0514** Operate Train Brake System

CY06 Stacker Reclaimers

- CY0601** Equipment Walkdown/Checkoff for Stacker Reclaimers
- CY0602** Check, Add, and Identify Proper Lubricants
- CY0603** Power Supply Locations
- CY0604** Housekeeping Activities
- CY0605** Deficiencies Specific to Stacker Reclaimers
- CY0606** Proper Start-up and Shutdown Procedures
- CY0607** Safety Precautions Associated with Stacker Reclaimers

CY07 Water Wagon

- CY0701** Equipment Prechecks
- CY0702** Check, Add, and Identify Proper Lubricants for All Components on the Water Wagon
- CY0703** Identify Equipment Deficiencies Specific to Water Wagon
- CY0704** Proper Coal Compaction Activities with the Water Wagon
- CY0705** Safety Precautions Associated with the Water Wagon

CY08 Rubber-Tired Dozer

- CY0801** Check, Add, and Identify Proper Lubricants for All Components
- CY0802** Equipment Deficiencies Specific to the Rubber-Tired Dozer
- CY0803** Proper Start-up and Shutdown Procedures
- CY0804** Safety Precautions Associated with the Rubber-Tired Dozer

CY09 Backhoe

- CY0901** Equipment Precheck on the Backhoe
- CY0902** Check, Add, and Identify Proper Lubricants on the Backhoe
- CY0903** Equipment Deficiencies Specific to the Backhoe
- CY0904** Safety Precautions Associated with the Backhoe

CY10 Conveyor Systems

- CY1001** Function of Conveyor System
- CY1002** Major Components of Conveyor System
- CY1003** Identify Power Sources (MCC)
- CY1004** Operator Safety Features

- CY1005** Equipment Safety Features
- CY1006** Possible Causes of Belt Misalignment

CY11 Rubber-Tired Scraper

- CY1101** Equipment Precheck on Rubber-Tired Scraper
- CY1102** Check, Add, and Identify Proper Lubricants for All Components
- CY1103** Equipment Deficiencies Specific to Rubber-Tired Scraper
- CY1104** Coal Compaction Activities with the Rubber-Tired Scraper
- CY1105** Safety Precautions Associated with Rubber-Tired Scraper

CY12 Dust Collection Systems

- CY1201** Equipment Precheck on Dust Collection Equipment
- CY1202** Equipment Deficiencies Specific to Dust Collection Equipment
- CY1203** Safety Precautions Associated with Dust Collection Equipment
- CY1204** Proper Operation of Dust Collection Equipment

CY13 Track-Type Dozer

- CY1301** Equipment Precheck on Track-Type Dozer
- CY1302** Check, Add, and Identify Proper Lubricants for all Components
- CY1303** Equipment Deficiencies Specific to Track-Type Dozer
- CY1304** Initiate Work Request on Track-Type Dozer
- CY1305** Safety Precautions Associated with Track-Type Dozer

CY14 Bobcat

- CY1401** Equipment Precheck on the Bobcat
- CY1402** Check, Add, and Identify Lubricants for All Components
- CY1403** Equipment Deficiencies Specific to the Bobcat
- CY1404** Safety Precautions Associated with the Bobcat

CY15 Rubber-Tired Loader

- CY1501** Check, Add, and Identify Proper Lubricants for all Components on the Large Rubber-Tired Loader
- CY1502** Equipment Deficiencies Specific to the Large Rubber-Tired Loader
- CY1503** Start-up and Shutdown Procedures of the Large Rubber-Tired Loader
- CY1504** Safety Precautions Associated with the Large Rubber-Tired Loader

Desalination

This course discusses Multi-Stage Flash (MSF) and Multi-Effect (ME) Thermal distillation Desalination processes.

DS01 Introduction to Desalination

DS0101 Introduction to Desalination

DS02 Introduction to Reverse Osmosis

DS0201 Introduction to Reverse Osmosis

Flue Gas Conditioning

The Flue Gas Conditioning series contains courses for plant personnel who operate and maintain various types of pollution control equipment including scrubbers, SCRs, and SNCRs.

FG01 Nitrogen Oxide (NOx) and Sulfur Oxide (SOx) Emissions

FG0101 Introduction to Nitrogen Oxide and Sulfur Oxide Emissions

FG0102 EPA Compliance Standards

FG02 Selective Non-Catalytic Reduction (SNCR)/ Selective Catalytic Reduction (SCR)

FG0201 Introduction to Selective Non-Catalytic Reduction/ Selective Catalytic Reduction

FG0202 Selective Non-Catalytic Reduction/Selective Catalytic Reduction Process

FG0203 SCR/SNCR Basic Operation, Preventive Maintenance, and Safety

FG03 Flue Gas Desulfurization

FG0301 Flue Gas Desulfurization

FG0302 Flue Gas Desulfurization Process

FG0303 FGD Basic Operation, Maintenance, and Safety

Heat Rate & Plant Performance

The Heat Rate and Plant Performance series contains various courses designed for plant control room operators and performance engineers.

HR01 Concern for Efficiency

HR01 Concern for Efficiency

HR02 First Law of Thermodynamics and Entropy

HR02 First Law of Thermodynamics and Entropy

HR03 Heat Rate

HR03 Heat Rate

HR04 Energy Transfer and Efficiency

HR04 Energy Transfer and Efficiency

HR05 Boiler, Turbine, and Generator Efficiency

HR05 Boiler, Turbine, and Generator Efficiency

HR06 Boiler Efficiency

HR06 Boiler Efficiency

HR07 Boiler Testing

HR07 Boiler Testing

HR08 Efficiency - Calculations and Air Heater Testing

HR08 Efficiency - Calculations and Air Heater Testing

HR09 Turbine Cycle Efficiency

HR09 Turbine Cycle Efficiency

HR10 Plant Performance

HR1001 Cycle Isolation

HR1002 Equipment Losses

Water Treatment

The Water Treatment series contains courses that address water/wastewater treatment and process control topics.

NA02 Cooling Towers

NA02 Cooling Towers

NA03 Chillers

NA03 Chillers

NA05 Boiler Basics

NA05 Boiler Basics

NA06 Water Tube Boilers

NA06 Water Tube Boilers

NA07 Boiler Cycle Chemistry

NA07 Boiler Cycle Chemistry

NA08 Advanced Boiler Problems and Solutions

NA08 Advanced Boiler Problems and Solutions

NA09 Ion Exchange Basics

NA09 Ion Exchange Basics

NA12 Statistical Process Control (SPC)

NA12 Statistical Process Control (SPC)

NA14 Basic Types of Wastewater Treatment

NA14 Basic Types of Wastewater Treatment

NA15 Wastewater Treatment Equipment

NA15 Wastewater Treatment Equipment

NA16 Wastewater Treatment Processes

NA16 Wastewater Treatment Processes

Power Plant Operations

Our Power Plant Operations series contains many courses for conventional power plant operators.

OP01 Power Generation Process

OP0101 Major Components of an A.C. Generator

OP0102 Principles of an AC Generator

OP0103 Auxiliary Systems of an AC Generator

OP0104 Basic AC Power Calculations

OP02 Advanced Turbine Operation

OP0201 Complete Startup of Turbine/Generator

OP0202 Complete Shutdown of Turbine/Generator

OP0203 SALI Charts with and without Rotor Stress Indicator (RSI)

OP0204 Operating Limits of the Turbine/Generator

OP0205 Purpose of Turbine Components and Instrumentation

OP0206 Operation of Turbine Components

OP0207 Purpose of Generator Components and Instrumentation

OP0208 Operation of Generator Components

OP0211 Corrective Action for Transient Conditions

OP03 Emergency Diesel Generators

OP0301 Operation of Emergency Generator Lube Oil System

OP0302 Operation of Emergency Generator Batteries and Charger

OP0303 Emergency Generator Operation

OP04 Advanced Boiler Operation

OP0401 Startup of a Boiler, From a Cold Boiler to Turbine Roll-Off

OP0402 Shutdown of a Boiler

OP0403 Air and Gas Flow Through the Boiler, From Fans to Stack

OP0404 Flow path of Water and Steam From Economizer Inlet to Main Condenser

OP0405 Corrective Actions for Various Transient Conditions

OP0406 Boiler Hydrostatic Test

OP0407 Operating Limits of Boilers and Boiler Components

OP0408 Safety Valves of the Boiler

OP0409 Pressure Range Where the Boiler Safety Valves Lift

OP0410 Operation of Pressurematic Vent Valves

OP0411 Operation of the Furnace Safeguard Supervisory System (FSSS)

OP0412 FSSS Power Supply for Low Voltages

OP0413 Purpose of All Boiler Instrumentation

OP0414 Sootblowing Effect on Furnaces

OP0415 Operation of a Bowl Mill

OP0416 Runups, Rundowns, and Runbacks

OP05 Boiler Gas and Fuel Oil Systems

OP0501 Major Components of the Fuel System

OP0502 Function of the Major Components of the Fuel System

OP0503 Flow path of Fuel Through the Fuel System

OP0504 Alignment of the Fuel System for Startup

OP0505 Alignment of the Fuel System for Shutdown

OP0506 Normal Operation of the Fuel System

OP0507 Association of Temperature and Viscosity in Burning Fuel Oil

OP0508 Power Sources for the Major Components of a Fuel System

OP0509 Safety Features of the Fuel System

OP0510 Functions of the Safety Features of the Fuel System

OP0511 Operation of the Fuel Unloading Terminals

OP0512 Procedure to Isolate and Tag the Fuel System Components

OP06 Circulating Water System

OP0601 Function and Types of Circulating Water Systems

OP0602 Major Components of the Circulating Water System

OP0603 Flow path of Water through the Circulating Water System

OP0604 Alignment for the Startup of the Circulating Water System

OP0605 Alignment for a Shutdown of the Circulating Water System

- OP0606** Chemical Treatment of the Circulating Water System
- OP0607** Flow path of the Chemical Feed for a Circulating Water System
- OP0608** Power Sources for Circulating Water System Components
- OP0609** Safety Features and Their Function in the Circulating Water System
- OP0611** Blowdown NPDS Limits
- OP0612** Isolating and Tagging of Circulating Water System Components
- OP0613** Identifying NPDS Limits
- OP07** **Generator Operation**
- OP0701** Purpose of Generators
- OP0702** Major Components of Generators
- OP0704** Transformers Associated with Generators
- OP0705** Interaction of Associated Transformers with Generators
- OP0706** Systems of Generators Cooled by Cooling Water System
- OP0707** Operation of Stator Cooling System
- OP0708** Major Components of the Generator Seal Oil System
- OP0709** Flow path of the Seal Oil System
- OP0710** Power Sources of Generator Seal Oil Components

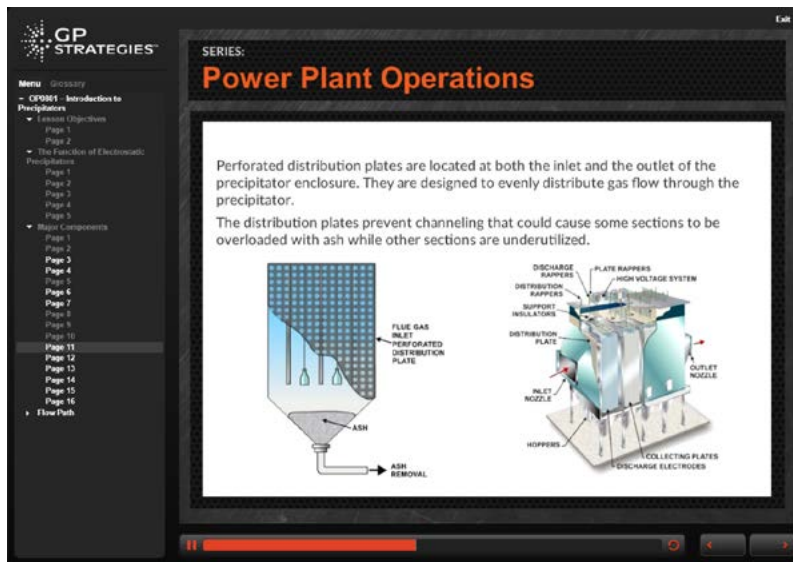
- OP0716** Power Sources of the Generator Hydrogen System
- OP0717** Purging the Generator with Air, Carbon-Dioxide, and Hydrogen
- OP0718** Power Sources of Generator Major Components
- OP0719** Safety Features of the Generator
- OP0721** Isolation and Tagging of Generator Components
- OP0722** Major Subsystems of the Generator
- OP0724** Conditions Required to Synchronize the Generator

OP08 **Precipitators**

- OP0801** Introduction to Precipitators
- OP0802** Precipitator Operation Fundamentals
- OP0804** Precipitator Start-Up Alignment
- OP0805** Precipitator Shutdown Alignment
- OP0806** Precipitator Safety
- OP0808** Precipitator Power Systems

OP09 **Turbine Operation**

- OP0901** Function of the Main Steam Turbine
- OP0902** Turbine Steam Valves
- OP0904** Flow path of Steam through the Turbine
- OP0905** Two Types of Turbine Bearings
- OP0906** Functions of Subsystems of the Turbine



Lesson:
OP0801 - Introduction to Precipitators

Series:
Power Plant Operations

Description:
This lesson introduces the function of electrostatic precipitators (ESP) and their major components. It also describes the flow path of flue gas through the precipitator.

- OP0711** Major Components of the Generator Bearing Oil System
- OP0712** Flow path of the Generator Bearing Oil System
- OP0713** Power Sources of Generator Bearing Oil System Components
- OP0715** Components of Generator Hydrogen System

- OP0907** Major Components of the Turbine and Their Function
- OP0909** Components in the Turbine Front Standard
- OP0911** Components of the Turbine Lube Oil System
- OP0912** Flow path of the Turbine Lube Oil System
- OP0913** Flow path of the Turbine Lube Oil Filtration

- OP0914** Effect of High Backpressure on Turbine Operation
- OP0915** Turbine Supervisory Instrumentation and Function
- OP0916** Condenser Vacuum Effects on Turbine Operation
- OP0917** Power Sources for Turbine Components
- OP0918** Safety Features of the Turbine
- OP0920** Function of the Turbine Exhaust Hood Spray
- OP0921** Function of the Turbine Steam Seal System
- OP0922** Isolation and Tagging of Turbine Components
- OP0923** Function of the Condenser Tube Spray System

OP10 Boiler Fans

- OP1001** Fans Associated with the Boiler
- OP1002** Function of Fans Associated with the Boiler
- OP1003** Major Components of the Fans
- OP1005** Operation of the Major Components for Fans
- OP1006** Function of the Air Preheater
- OP1007** Major Components of the Air Preheater
- OP1008** Functions of the Major Components of the Air Preheater
- OP1009** Operation of the Major Components of Air Preheater
- OP1010** Alignment for the Start-up of the Fans
- OP1011** Alignment for the Shutdown of the Fans
- OP1012** Alignment of the Air Preheater for Start-up
- OP1013** Alignment of the Air Preheater for Shutdown
- OP1015** Functions of the Safety Features of the Fans
- OP1017** Safety Concerns, Protective Features and Functions of the Air Preheaters
- OP1018** Power Sources for Fans and Fan Auxiliaries
- OP1019** Power Sources for Air Preheater and Auxiliaries
- OP1020** Air Preheater Wash System
- OP1021** Function and Operational Variables of the Air Preheater Wash System
- OP1022** Major Components of the Air Preheater Wash System
- OP1023** Alignment for Start-up of the Air Preheater Wash System
- OP1024** Shutdown Alignment of the Air Preheater Wash System
- OP1025** Flow path of the Air Preheater Wash System
- OP1026** Power Sources for Air Preheater Wash System
- OP1027** Isolating and Tagging of Fan Components
- OP1028** Isolating and Tagging of Air Preheater Components
- OP1029** Isolating and Tagging of Air Preheater Wash System Components
- OP1030** Function and Operation of the Steam Air Heater System
- OP1032** Major Components of the Steam Air Heater System
- OP1033** Alignment of Steam Air Heaters for Service
- OP1034** Alignment to Remove Steam Air Heaters from Service

- OP1035** Flow path of the Steam Air Heater System
- OP1036** Isolating and Tagging of the Steam Air Heater Components

OP11 Sootblowing System

- OP1101** Introduction to Sootblowing Systems
- OP1105** Sootblowing System Alignment
- OP1108** Protective Features of Sootblowing Systems
- OP1110** Power Sources for the Sootblowing System

OP12 Boiler Operation

- OP1201** Major Components of the Boiler
- OP1202** Function of the Boiler Drum
- OP1203** Function of the Superheat and Reheat Attenuators
- OP1204** Flow Path of Water and Steam Through the Boiler
- OP1205** Boiler Alignment for Cold Startup
- OP1206** Boiler Alignment for Shutdown
- OP1207** Procedures for Handling Transient Conditions of a Boiler
- OP1208** Boiler Valve Alignment for Fill and Vent
- OP1209** Power Sources for the Major Components of a Boiler
- OP1210** Safety Features of Boiler
- OP1211** Function of the Boiler Safety Features
- OP1212** Function of the Flash Tank
- OP1213** Sub-Critical and Critical Operation Ramps
- OP1214** Identification and Monitoring of Steam Trap Operations
- OP1215** Function of the Superheater Condenser
- OP1216** Isolating and Tagging of Boiler Components
- OP1217** Function of the Superheat and Reheat Dampers
- OP1218** Function of the Blowdown Tank

OP13 Electro-Hydraulic Control (EHC) Systems

- OP1301** Introduction to the EHC System
- OP1304** The Fullers Earth Filter System
- OP1307** EHC Return Oil Filters and Coolers
- OP1309** Alignment for Start-up of the EHC System
- OP1312** EHC System Protection
- OP1313** EHC System Power Sources and Isolation

OP14 Mechanical Hydraulic Control (MHC) Systems

- OP1401** Introduction to the MHC System
- OP1405** Isolation and Startup of the MHC System

- OP15** **Pulverizers and Feeders**
- OP1501** Major Components of the Pulverizers and Feeders
- OP1502** Function of the Pulverizers and Feeders
- OP1503** Flow path of Coal through the Pulverizers and Feeders
- OP1504** Pulverizer Oil Systems
- OP1505** Functions of the Pulverizer Oil Systems
- OP1506** Start-Up Alignment of the Pulverizers and Feeders
- OP1507** Power Sources for Pulverizers, Feeders, and Components
- OP1508** Safety Features of the Pulverizers and Feeders
- OP1509** Safety Feature Functions of the Pulverizers and Feeders
- OP1510** Inerting Steam Operation
- OP1511** Seal Air Sequence for Pulverizer Start-Up
- OP1512** Function of the Pyrite System
- OP1513** Operation of the Pyrite System
- OP1514** Isolating and Tagging of Pulverizer and Feeder Components

- WTE02** **Refuse Boiler**
- WTE0201** Refuse Fired Boiler Overview
- WTE0202** Refuse Boiler Main Components
- WTE0203** Refuse Boiler Combustion Section
- WTE03** **Corrosion**
- WTE0301** Basics of Corrosion and High Temperature Corrosion
- WTE0302** Controlling Corrosion
- WTE0303** Types of High Temperature Corrosion
- WTE0304** Boiler Design and Operational Concerns
- WTE0305** Practices Affecting Corrosion

Substations

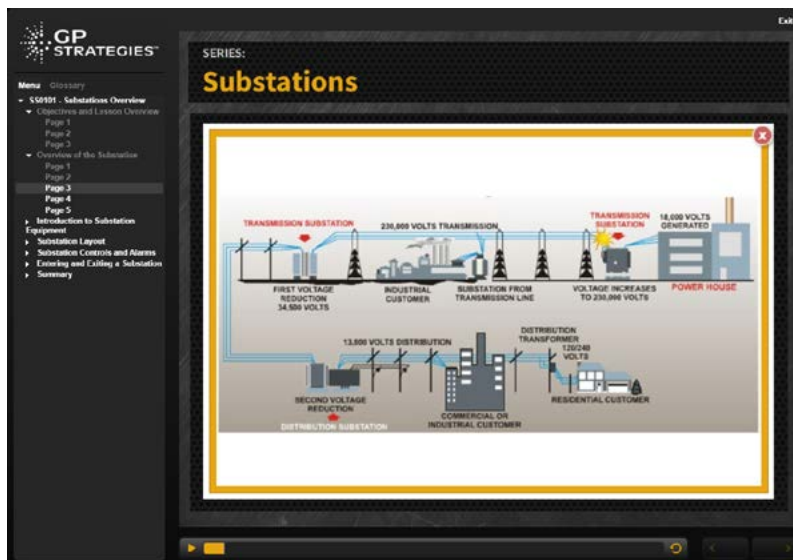
The Substation series is designed to introduce all personnel in power generation and transmission/distribution to the basic function, components, and arrangements of substations.

Waste-to-Energy Plants

The Waste-to-Energy series includes courses for facilities that use solid waste as a fuel and discusses the various systems and equipment unique to waste-burning plants.

- SS01** **Introduction to Substations**
- SS0101** Substations Overview
- SS0102** Major Equipment Functions
- SS0103** Substation Layouts, Controls and Alarms

- WTE01** **Refuse Receiving and Handling**
- WTE0101** Municipal Solid Waste as Fuel
- WTE0102** Refuse Receiving, Handling Layout, and Equipment
- WTE0103** Refuse Receiving and Handling Operations
- WTE0104** Refuse Receiving and Handling Summary



Lesson:
SS0101 - Substations Overview

Series:
Substations

Description:
This lesson provides an overview of a typical substation, including an introduction to various substation equipment, its layout, controls, and alarms. The lesson also discusses general rules on entering, existing, and working safely within a substation.

Renewables

Renewables are the fastest growing energy source in the United States. Whether you work at one of these facilities, your company has renewable assets in your fleet, or you just want to learn about different ways to generate electricity, these series provide you the knowledge for basic understanding of how to generate electricity on a commercial scale using wind, the sun, or water.

Wind Farms

The Wind Farm series contains courses on various technologies for wind farm operations.

WF01 Introduction to Wind Farms

- WF0101 Introduction to Wind Farms
- WF0102 Yaw System
- WF0103 Pitch Control
- WF0104 Wind Farm Safety and Environment
- WF0105 SCADA Systems
- WF0106 Wind Power Converters

WF02 Zond Wind Farm Technology

- WF0201 Zond Wind Farm Technology

WF03 Mitsubishi Wind Farm Technology

- WF0301 Mitsubishi MWT-1000A Wind Turbine Generator

Commercial Solar Power Generation

The Commercial Solar Power Generation series includes courses on various solar power technologies.

SL01 Commercial Solar Power Generation

- SL0101 Introduction to Utility-Scale Photovoltaic Systems
- SL0102 Inverters and Transformers

Hydroelectric Plants

The Hydroelectric series includes courses that discuss hydraulic theory and expand into various types of dams, structures, and hydroelectric turbines.

HY01 Introduction to Hydroelectric Generation

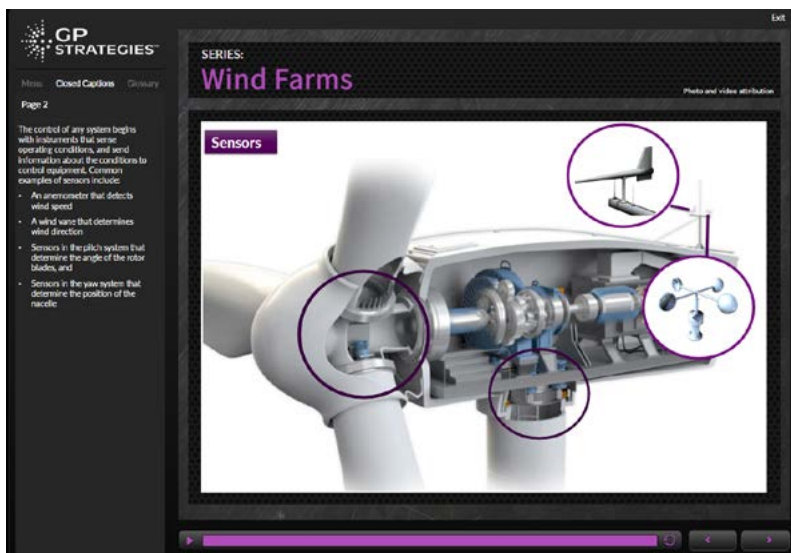
- HY0101 Intro to Hydroelectric Power Generation
- HY0102 Construction and Key Features of Dams
- HY0103 Design and Operational Consideration

HY02 Hydroelectric Systems – Mechanical

- HY0201 Turbine Hydraulic System
- HY0202 Hydroelectric Turbines
- HY0203 Impulse Turbines

HY03 Hydroelectric Systems – Electrical

- HY0301 Hydroelectric Generators
- HY0302 Hydraulic Turbine Governor System



Lesson:
WF0105 - SCADA Systems

Series:
Wind Farms

Description:
This lesson provides an overview of SCADA systems including the basic function of the SCADA and the typical layout of a wind farm SCADA system.

Operational Excellence Toolbox

The lessons in this section consist of microlearnings, vignettes, and activities used to drive operational excellence throughout your organization. The lessons in this section do not have any associated exams.

Human Performance Improvement (HPI)

The HPI lessons consist of a combination of vignettes and activities to help reinforce concepts that lead to safe and efficient work throughout your organization.

HP01 Overview of HPI

HP0101 Overview of Human Performance Improvement

HP02 HPI Vignettes

HP0201 Self Checking Vignette

HP0202 Effective Communication Vignette

HP0203 Time Out Vignette

HP0204 Peer Checking Vignette

HP0205 Place Keeping Vignette

HP0206 Brief-Huddle-Review Vignette

HP0207 Two-Minute Rule Vignette

HP0208 Independent Verification Vignette

HP0209 Questioning Attitude (QVV) Vignette

HP0210 Concurrent Verification

HP03 HPI Activities

HP0301 Effective Communication Activity

HP0302 Place Keeping Activity

HP0303 Peer Checking Activity

HP0304 Two-Minute Rule Activity

Leadership Skills

The Leadership Skills animated vignettes are developed by GP's BlessingWhite division and aim to equip your leaders with tools to more effectively communicate and manage their teams.

LS01 Leadership Skills

LS0102 Employee Engagement – The X Model

LS0103 Employee Engagement – Shared Responsibility

LS0105 Questioning Strategically - The Four Quadrants

LS0107 Showing Empathy - The Logic Emotion Bubble

LS0108 Communicating Benefits - The Bull's Eye

LS0109 Handling Resistance -The Roundabout

LS0110 Delegating Responsibility -The Funnel

Conduct of Operations

This series covers a variety of topics that provides direction to and sets expectations for an operations staff. The goal of the series is to help your organization drive toward professionalism, high standards, and best operating practices, while creating a culture of excellence.

CO01 Overview

CO0101 Conduct of Operations Overview

CO02 Microlearning

CO0201 Operator Rounds

CO0202 Measurement and Records

CO0203 Housekeeping and Safety

CO0204 Operational Conditions

CO0205 Rotating Equipment Status

CO0206 System Lineup

CO0207 Valves

CO0208 Battery Maintenance

Root Cause Analysis

The RCA lessons overview various topics that aim to utilize systematic processes for identifying problems and implementing responses that reduce these problems from occurring again in the future.

RCA01 Root Cause Analysis

RCA0101 Problem-Solving Fundamentals

RCA0102 RCA Tools and Methods

RCA0103 The Five Whys

RCA0104 Fishbone Diagrams

RCA0105 Logic Trees

3D Exploratory

These lessons allows the user to interact and explore specific equipment, through zooming in/out, and rotating the 3D object 360 degrees in all directions.

TDX01 Centrifugal Pump

TDX0101 Centrifugal Pump 3D Exploratory

TDX02 Air-Operated Control Valve

TDX0201 Air-Operated Control Valve 3D Exploratory

TDX03 Heat Exchange and Cooling

TDX0301 Shell and Tube Heat Exchanger 3D Exploratory

TDX0302 Fin Fan Cooler

TDX0303 Mechanical Draft Cooling Tower

TDX0304 Natural Draft Cooling Tower

TDX04 Package Boiler

TDX0401 Package Boiler 3D Exploratory

TDX05 Filtration

TDX0501 Multi Media Filter

TDX0502 RO Filtration Cycle

TDX06 Pollution

TDX0601 Pollution Control

TDX07 Transformer

TDX0701 Transformer

TDX08 Air Compressor

TDX0801 Air Compressor

TDX10 Substation

TDX1001 Substation Overview

Reliability

These microlearnings offer short, highly interactive, and sharply focused content relating to specific mechanical maintenance topics aimed to improve reliability of equipment.

RE02 Defect Elimination

RE0200 Defect Elimination: Journal Bearings

RE0205 Defect Elimination: Centrifugal Pumps

RE0210 Defect Elimination: Mechanical Seals

RE0215 Defect Elimination: Valves

RE0220 Defect Elimination: Actuators

RE0225 Defect Elimination: Solenoids

RE0230 Defect Elimination: Electric Motors

RE0231 Defect Elimination: Brakes

RE0232 Defect Elimination: Clutches

RE0235 Defect Elimination: Couplings

RE0240 Defect Elimination: Compressors

RE0245 Defect Elimination: Accumulators

RE0250 Defect Elimination: Gears and Splines

RE0255 Defect Elimination: Filters

RE10 Video Vignettes

RE1001 Chain Drives: Tensioning a Single Roller Chain

RE1002 Belt Drives: Tensioning a V-Belt

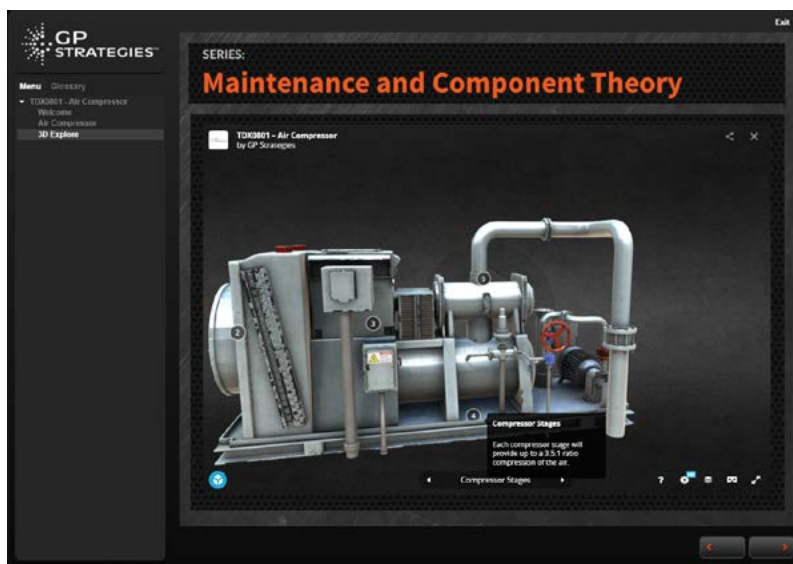
RE1003 Valve Types

RE1004 Bearings: Remove/Replace Tapered Bearings

RE1005 Seals: Mechanical Seal Replacements

RE1006 Seals: Valve Packing Replacement

RE1007 Lubrication: Centrifugal Pump Oil Change



Lesson:
TDX0801 - Air Compressor

Series:
3D Exploratory Model

Description:
This model provides users an opportunity to manipulate a 3D model of a multi-stage, screw-type air compressor and select key components to view their descriptions.

Through our partnership with SafetySkills, we are able to bring a wide range of additional Safety, Environmental, Human Resources, and Manager's Tools lessons to the GPiLEARN+ catalog.

Please note that any courses with a "CAL" prefix are CAL OSHA courses, the "SNP" prefix is used to denote a microlearning, and any courses with a suffix of "can" are Canadian based courses.

Safety

Bloodborne Pathogens

CAL-05.0	Bloodborne Pathogens
SNP-10.2	Bloodborne Pathogens: Cleaning and Disinfecting
SNP-11.2	Bloodborne Pathogens: Exposure Control
SNP-12.2	Bloodborne Pathogens: Protocols and Recordkeeping
SNP-13.2	Bloodborne Pathogens: Routes of Transmission
SNP-9.2	Bloodborne Pathogens: Characteristics
BBP-1.2	Bloodborne Pathogens
BBP-1.2can	Bloodborne Pathogens - Canada

Chemical Safety

CHM-1.2	Chemical Safety
CHM-9.2	Ammonium Hydroxide
LAB-1.2	Laboratory Safety
LAB-2.2	Chemical Hygiene Plan
CHM-1.0can	Chemical Safety - Canada

Combustible Hazards

FLL-1.2	Flammable and Combustible Liquids
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Compressed Gases

CAL-07.0	Compressed Gases Awareness
CGS-1.2	Compressed Gas Safety

Confined Space

CFS-1.2	Confined Space Awareness
SNP-14.2	Confined Space: Assigned Duties and Responsibilities
SNP-15.2	Confined Space: Emergency Procedures
SNP-16.2	Confined Space: Hazard Controls
SNP-17.2	Confined Space: Hazards in Confined Spaces
SNP-18.2	Confined Space: Types of Confined Spaces
CFS-1.0can	Confined Space Awareness - Canada

Construction Safety

BCS-1.2	Construction Safety
BCS-2.2	Struck By and Caught Between Injuries for Construction
EXC-1.2	Excavation and Trenching

BCS-1.0can	Construction Safety - Canada
EXC-1.0can	Excavation and Trenching - Canada

CPR

CPR-1.2	CPR Refresher
CPR-2.2	Hands-Only CPR

Cranes

OCS-1.2	Crane Safety
OCS-2.2	Crane Safety - Hand Signals

Electrical Safety

CAL-04.2	Electrical Safety
CAL-13.2	Electrical Safety - Arc Flash - Cal/OSHA
ELT-1.2	Electrical Safety
ELT-2.2	Electrical Safety - Grounding
ELT-3.2	Electrical Safety above 601 Volts
ELT-4.2	Electrical Safety - Arc Flash
ELT-1.0can	Electrical Safety - Canada
ELT-4.0can	Electrical Safety - Arc Flash - Canada

Employee Health

CSW-1.2	Cold Stress in the Workplace
FLU-1.2	Influenza Symptoms and Prevention Strategies for Employees and Business Owners
HSW-1.2	Heat Stress in the Workplace
MED-5.2	Legionnaires' Disease
MED-12.2	Influenza Pandemic Planning for Businesses
MED-13.2	Influenza Prevention
MED-14.2	Coronavirus (COVID-19) Prevention
MED-15.2	Coronavirus (COVID-19) Prevention in the Workplace
CSW-1.0can	Cold Stress in the Workplace - Canada
HSW-1.0can	Heat Stress in the Workplace - Canada

Equipment Safety

MCG-1.2	Machine Guarding
MCG-1.2can	Machine Guarding - Canada

Ergonomics

JSA-2.2	Back Injury Prevention
MAT-1.2	Material Handling

- CAL-06.0** Industrial Ergonomics
- ERG-1.2** Industrial Ergonomics
- ERG-2.2** Office Ergonomics
- JSA-2.0can** Back Injury Prevention - Canada
- ERG-1.0can** Industrial Ergonomics - Canada
- ERG-2.0can** Office Ergonomics - Canada

Fall Protection

- CAL-01.0** Fall Protection Awareness
- CAL-03.0** Ladder Safety
- FAL-1.2** Fall Protection
- FAL-2.2** Active Fall Protection Systems
- LDR-1.2** Ladder Safety
- SNP-40.2** Ladder Safety: Types and General Safe Practices
- SNP-41.2** Ladder Safety: Safe Use
- SNP-42.2** Ladder Safety: Inspection, Set-up, and Location
- SNP-43.2** Slips/Trips/Falls: Elevated Surfaces
- SNP-44.2** Slips/Trips/Falls: Holes and Openings
- SNP-45.2** Slips/Trips/Falls: Walking and Working Surfaces
- STF-1.2** Slips/Trips/Falls

First Aid

- BFA-1.2** Basic First Aid
- CAL-09.0** Basic First Aid
- BFA-1.2can** Basic First Aid - Canada

Forklifts

- CAL-08.0** Forklift Operator Training: Fundamentals
- FLO-1.2** Forklift Operator Training - Fundamentals
- FLO-2.2** Forklift Operator Training - Safe Operations
- FLO-3.2** Forklift Operator Training - Safe Traveling and Loading
- FLO-4.2** Forklift Operator Training - Safe Maintenance
- FLO-1.2can** Forklift Operator Training - Fundamentals - Canada

Hazard Communication

- AUD-1.2** Performing Safety Audits
- GHS-1.2** Globally Harmonized System (GHS)
- HZC-1.2** Hazard Communication
- HZM-1.2** Hazardous Materials Classification - Basic



Lesson:
ELT-3.2 Electrical Safety Above 601 Volts

Series:
SafetySkills Safety

Description:
This course is intended for all workers who many come in contact with high-voltage sources while working, and can assist employers with complying with OSHA's requirements on electrical safety.

- FAL-2.2can** Working From Heights - Canada
- FAL-1.0can** Fall Protection - Canada
- LDR-1.0can** Ladder Safety - Canada
- STF-1.0can** Slips/Trips/Falls - Canada

Fire Safety

- CAL-11.0** Fire Safety
- FRS-1.2** Fire Safety
- FRS-2.2** Portable Fire Extinguishers
- SNP-24.2** Fire Safety: Alarms
- SNP-25.2** Fire Safety: Evacuation and Procedures
- SNP-26.2** Fire Safety: Fire Suppression
- SNP-39.2** Fire Safety: Portable Fire Extinguishers
- FRS-1.2can** Fire Safety - Canada
- FRS-2.0can** Portable Fire Extinguishers - Canada

- MSD-1.2** Safety Data Sheets
- OGS-45.2** Accident Prevention Signs and Tags
- OSH-1.2** Occupational Safety and Health Programs
- OSH-3.2** OSHA Reporting & Recordkeeping
- SNP-28.2** Hazard Communication: Chemical Hazards and Hazard Controls
- SNP-29.2** Hazard Communication: Labels
- SNP-30.2** Hazard Communication: Medical Recordkeeping
- SNP-31.2** Hazard Communication: Purpose and Requirements of a HAZCOM Program
- SNP-32.2** Hazard Communication: Safety Data Sheet Awareness
- SNP-33.2** Hazard Communication: SDS Sections
- WMS-1.0can** WHMIS 2015 - Canada

Hazardous Compounds

- ASB-1.2** Asbestos Hazard Awareness
- CHM-2.2** Carcinogen Awareness
- CHM-3.2** Benzene Awareness
- CHM-5.2** Hexavalent Chromium
- CHM-7.2** Beryllium Awareness
- PBA-1.2** Lead Awareness

Hazmat

- EMR-1.2** Emergency Response
- FRO-1.2** Surveying the HAZMAT Incident
- HZW-1.2** Hazardous Waste Awareness
- INV-1.2** Incident Investigation
- EMR-1.2can** Emergency Response - Canada
- INV-1.0can** Incident Investigation - Canada

Hearing Conservation

- HRC-1.2** Hearing Conservation
- HRC-1.2can** Hearing Conservation - Canada

Lockout/Tagout

- LOT-1.2** Lockout/Tagout - Competency Format
- LOT-3.2** Lockout/Tagout Awareness for Affected Personnel
- LOT-1.2can** Lockout/Tagout - Canada

Oil and Gas Safety

- OGS-29.2** Wildlife Safety for the Oil and Gas Industry
- OGS-1.2** H2S Safety Procedures for Drilling and Production Operations
- OGS-10.2** Excavation and Trenching for Upstream Oil and Gas Operations
- OGS-11.2** Hearing Conservation for Upstream Oil and Gas Operations
- OGS-15.2** Fall Protection for Upstream Oil and Gas Operations
- OGS-16.2** Respiratory Protection for Oil and Gas Personnel

- OGS-19.2** Heat Stress for Upstream Oil and Gas Operations
- OGS-2.2** Portable Fire Extinguisher Techniques on Oil and Gas Sites
- OGS-20.2** Cold Stress for Upstream and Midstream Oil and Gas Operations
- OGS-24.2** NORM Awareness for Upstream Oil and Gas Operations
- OGS-26.2** Hand and Power Tools for the Oil and Gas Industry
- OGS-27.2** Occupational Safety and Health Programs in the Oil and Gas Industry
- OGS-3.2** Fire Protection for Oil and Gas Employees
- OGS-3.2** Fire Protection for Oil and Gas Employees
- OGS-31.2** Basic First Aid for Oil and Gas Personnel
- OGS-33.2** Machine Guarding for Oil and Gas Personnel
- OGS-34.2** Rigging Safety for Oil & Gas Operations
- OGS-36.2** Back Injury Prevention for Oil and Gas Workers
- OGS-5.2** Personal Protective Equipment for Oil and Gas Personnel
- OGS-52.2** Silica Awareness
- OGS-59.2** Contractor Orientation for Oil and Gas
- OGS-6.2** Hot Work/Arc Welding for Oil and Gas Operations
- OGS-7.2** Hazard Communication for the Oil and Gas Industry
- OGS-8.2** Confined Space and Engulfment Awareness for Oil and Gas Operations
- OGS-1.0can** H2S Safety Procedures for Drilling and Production Operations - Canada
- OGS-18.0can** Oil Rig Safety - Canada

Personnel Lifts

- BSS-2.2** Aerial Lift Safety
- SNP-90.2** Scissor Lift Basics (Microlearning)
- SNP-91.2** Scissor Lift Hazards and Safe Operations

PPE

- PPE-1.2** Personal Protective Equipment



Lesson:

SNP-47.2 - PPE Eye and Face

Series:

SafetySkills Microlearning

Description:

This lesson provides a brief overview of eye and face PPE and their uses.

- SNP-34.2** Personal Protective Equipment: Types of Gloves
- SNP-46.2** Personal Protective Equipment: Full Body Protection
- SNP-47.2** Personal Protective Equipment: Eye and Face Protection
- SNP-48.2** Personal Protective Equipment: Head Protection
- SNP-49.2** Personal Protective Equipment: Leg and Foot Protection
- PPE-1.2can** Personal Protective Equipment - Canada

Respiratory Protection

- RSP-1.2** Respiratory Protection
- SNP-4.2** Respiratory Protection: Basic Requirements (Microlearning)
- SNP-5.2** Respiratory Protection: Respiratory Hazards (Microlearning)
- SNP-6.2** Respiratory Protection: Air-Purifying Respirators (Microlearning)
- SNP-7.2** Respiratory Protection: Atmosphere-Supplying (Microlearning)
- SNP-8.2** Respiratory Protection: Wearing and Maintaining (Microlearning)
- RSP-1.0can** Respiratory Protection - Canada

Safety - Various/Other

- BBS-1.2** Behavior Based Safety
- BOS-1.2** Office Safety
- EAP-1.2** Emergency Action Plans for Office Employees
- GEN-1.2** General Safety Orientation
- GEN-2.2** Temporary Worker Safety
- IAQ-1.2** Indoor Air Quality
- IND-1.2** Industrial Hygiene
- INO-1.2** Introduction to OSHA
- JSA-1.2** Job Safety Analysis
- OGS-30.2** Fatigue Management
- PPE-2.2** Hand and Pinch Point Safety
- PSM-1.2** Process Safety Management
- SVW-1.2** Severe Weather and Outdoor Work
- SWA-1.2** Stop Work Authority
- WHS-1.2** Warehouse Safety
- ALC-2.2** Active Shooter: Run/Hide/Fight
- EMR-2.2** Earthquake Safety
- SIA-1.2** Situational Awareness-Business Travel
- SNP-19.2** Emergency Response: Bomb Threats
- SNP-20.2** Emergency Preparedness: Emergency Action Plans
- SNP-21.2** Emergency Preparedness: Medical Emergencies
- SNP-22.2** Emergency Preparedness: Emergency Procedures
- SNP-23.2** Emergency Preparedness: Reporting Emergencies

- SNP-27.2** Housekeeping Awareness
- SNP-35.2** Severe Weather: Flash Floods
- SNP-36.2** Severe Weather Awareness
- SNP-37.2** Severe Weather: Thunderstorms
- SNP-38.2** Severe Weather: Tornadoes
- AUD-1.0can** Performing Safety Audits - Canada
- MAT-1.0can** Materials Handling - Canada
- SVW-1.0can** Severe Weather and Outdoor Work - Canada
- WHS-1.0can** Warehouse Safety - Canada

Scaffolding

- SCF-1.2** Scaffold Safety
- SNP-87.2** Scaffold Safety: Types and Hazards of Scaffolds (Microlearning)
- SNP-88.2** Scaffold Regulatory Requirements (Microlearning)
- SNP-89.2** Scaffold Safety: Protective Devices and Practices (Microlearning)
- SCF-1.0can** Scaffold Safety - Canada

Special Hazards

- LSR-1.2** Laser Safety
- RAD-1.2** Radiation Safety Awareness

Tool Safety

- CAL-10.0** Hand and Power Tool Safety
- HPT-1.2** Hand and Power Tool Safety
- HPT-1.0can** Hand and Power Tool Safety - Canada

Vehicle Safety

- DRV-1.2** Driver Safety
- DRV-2.2** Distracted Driver
- DRV-3.2** Road Rage
- DRV-4.2** Hazards of Speeding
- DRV-5.2** Delivery Driver Safety
- DRV-6.2** Hazardous Driving Conditions
- DRV-1.0can** Driver Safety - Canada
- DRV-2.0can** Distracted Driver - Canada
- DRV-3.0can** Road Rage - Canada
- DRV-4.0can** Hazards of Speeding - Canada
- DRV-5.0can** Delivery Driver Safety - Canada
- DRV-6.0can** Hazardous Driving Conditions - Canada

Welding Safety

- CAL-02.0** Hot Work/Arc Welding
- HTW-1.2** Hot Work/Arc Welding
- HTW-1.0can** Hot Work/Arc Welding - Canada

Environmental

DOT Hazardous Materials

- HMT-0.0** Hazardous Materials Transportation, Introduction
- HMT-01.2** Hazmat 01: The Hazardous Materials Table
- HMT-02.2** Hazmat 02: Hazmat Shipping Papers
- HMT-03.2** Hazmat 03: Hazmat Marking and Labeling
- HMT-04.2** Hazmat 04: Hazmat Placarding
- HMT-05.2** Hazmat 05: Hazmat Packaging
- HMT-10.2** Hazmat 10: Hazmat Transportation Security Awareness
- HZM-2.0** Hazardous Materials Management - Explosives

Environmental Policy

- HZC-9.2** Small Spill Response
- HZW-1.2** Hazardous Waste Awareness (RCRA)
- INT-18.0** Environmental Awareness
- UWM-1.2** Universal Waste Management

Oil and Gas

- OGS-12.2** Spill Prevention, Control and Countermeasures for Oil and Gas Operations
- OGS-13.2** Spill Response for Oil and Gas Personnel
- OGS-29.2** Wildlife Safety for the Oil and Gas Industry

Storm Water

- STW-2.2** Stormwater Pollution Prevention for Industrial Operations

Human Resources

Conflict and Change

- HRM-22.2** Conflict Resolution Strategies

Diversity

- HRM-13.0** Diversity in the Workplace

Drug Free Workplace

- HRM-20.0** Substance Abuse Training for Supervisors
- HRM-8.0** Drug Free Workplace
- OGS-41.2** Reasonable Suspicion Substance Abuse Training for Supervisors in the Oil and Gas Industry
- HRM-8.0can** Drug Free Workplace - Canada

Hiring and Separation

- ETH-2.2** Foreign Corrupt Practices Act (FCPA)
- ETQ-1.2** Electronic Communication Etiquette for Business
- HRM-16.0** Lawful Terminations and Employee Separation
- HRM-2.0** Lawful Hiring Practices

- HRM-25.2** Fair Labor Standards Act (FLSA)
- MED-1.2** HIPAA Compliance Training
- MED-3.2** HIPAA Compliance Training for HR Officers
- OGS-54.2** Access to Medical Records

Sexual Harassment and Discrimination

- HRM-10.0** Sexual Harassment Prevention for Managers
- HRM-17.0** Sexual Harassment and Discrimination for Employees
- HRM-18.2** Sexual Harassment and Discrimination for Managers in California
- HRM-21.2** Sexual Harassment and Discrimination for Employees in California
- HRM-23.2** Sexual Harassment and Discrimination for Managers in New York
- HRM-24.2** Sexual Harassment and Discrimination for Employees in New York
- HRM-3.0** Discrimination in the Workplace
- HSP-13.2** Human Trafficking Awareness and Prevention
- HRM-3.0can** Discrimination in the Workplace for Managers - Canada

Workplace Violence

- HRM-7.2** Violence in the Workplace
- HRM-7.0can** Violence in the Workplace - Canada

Manager Tools

Leadership Skills

- HRM-14.2** Leadership Skills for Managers
- SFT-1.2** Active Listening
- SFT-2.2** Negotiation Skills
- SFT-3.2** Time Management



This bundle of courses provides an introduction to the Human Resources and Legal Compliance, Business Skills, and Productivity courses that can be pulled into your GPiLEARN+ solution through our partnership with Skillsoft. If you would like to add these courses to your content package, contact us today!

Legal Compliance

- US Anti-Trust
- Code of Conduct Awareness
- EU General Data Protection Regulations (GDPR)
- Global Business Ethics
- Integrity in the Workplace
- Global Anti-Bribery
- Global Diversity
- Wage and Hour for Employees

Business Skills

- Basic Accounting Concepts for Non-Financial Professionals
- Basic Budgeting for Non-Financial Professionals
- The Art and Science of Communication
- Aligning Goals and Priorities to Manage Time

- Getting to the Root of a Problem
- Being an Effective Team Member
- The Reality of Being a First-time Manager
- Writing Effective Emails and Instant Messages
- Ethics and Project Management

Productivity

- Microsoft Office 2016 Intermediate Excel: PivotTables and Advanced Charts
- Microsoft Excel 2016 Advanced: Power Pivot, Custom Formatting, Fills, and Forms
- Headers, Footers, Page Numbering, and Layout in Word 2016
- Maintaining, Protecting, and Reviewing Documents in Word 2016
- Using Slide Masters and Slide Elements to Optimize Impact
- Designing Effective PowerPoint Presentations

In addition to the introductory courses shown here, a complete Human Resources/Legal Compliance Content Package (over 175 lessons) and flexible Productivity Bundles are available to add to your GPiLEARN+ solution. Please contact us at gpilearn@gpstrategies.com to learn more!



Lesson:
The Art and Science of Communication

Series:
Skillsoft Business Skills

Description:
This course will teach you the art and science of communication by discussing how to connect with your audience and how to enhance and strengthen that connection as you communicate.



GPiLEARN+ En Español

GPiLEARN+ también puede estar disponible en Español, así como en otros idiomas necesarios para su público. Mientras incluimos un listado de algunos de los idiomas a continuación, no dude en contactarnos para obtener información sobre cómo traducir nuestras lecciones para sus necesidades.

Cumplimiento de OSHA

La serie de Cumplimiento de OSHA contiene numerosos cursos para abordar los problemas de Seguridad Federal y HAZMAT dentro de las industrias técnicas.

OS08 Grúas

OS0801es Grúas - Módulo 1

OS0802es Grúas - Módulo 2

OS11 Protección contra caídas

OS1101es Protección contra caídas

OS12 Montacargas elevadoras

OS1203es Montacargas - toma de conciencia general

OS21 Andamio

OS2101es Seguridad de andamios - Módulo 1

OS2102es Seguridad de andamios - Módulo 2

OS25 Seguridad Eléctrica

OS2501es Conciencia de arcos eléctricos

OS26 Peligros combustibles

OS2601es Polvo combustible

OS40 Seguridad -Varios / Otros

OS4001es Reconocimiento de riesgos

Fundamentos de Energía

La serie Fundamentos de Energía contiene varios cursos que se centran en la capacitación teórica y de sistemas para trabajadores de plantas de energía.

PF01 Equipo de protección personal

PF0101es Peligros de la planta y equipos de protección

PF0102es Primeros auxilios

PF0103es Protección contra incendios

PF0104es Energía y materiales peligrosos

PF02 Introducción a la generación de energía

PF0201es Fuentes de combustibles y energía

PF0202es Componentes del sistema de combustión

PF0203es Combustión de lecho fluidizado

PF0204es Ciclo de vapor / agua en la caldera

PF0205es Panorama de los aspectos básicos de la turbina

PF0206es Sistemas auxiliares de la planta

PF03 Propiedades físicas

PF0301es Unidades de medida

PF0302es Presión

PF0303es Energía

PF0304es Fases y estados de la materia

PF04 Conceptos básicos de combustión

PF0401es Combustibles

PF0402es Química de la combustión

PF0403es Tipos de transferencia de calor

PF05 Remoción de cenizas (plantas de calderas)

PF0501es El qué y dónde de la ceniza

PF0502es Sistema de remoción de cenizas del fondo

PF0503es Sistemas para el manejo de cenizas en el aire

PF06 Turbina de combustión (LM2500)

PF0601es Turbinas de combustión

PF0602es Componentes principales de la turbina de gas

PF0603es Lubricación de la turbina de gas y sistemas de control de aceite

PF0604es Sistemas de entrada de aire, alimentación de combustible, e inyección de agua

PF07 Turbina de combustión (6)

PF0701es Panorama general de las turbinas de combustión

PF0702es Sistema de arranque y sistemas auxiliares

PF0703es Sistema de lubricación, hidráulica, y control de aceite

PF0704es Sistemas de componentes de combustión y combustible

PF0705es Operación del generador

PF08 Turbina de combustión (7EA)

PF0801es Turbinas de combustión

PF0802es Sistema de arranque y sistemas auxiliares de aire

PF0803es Sistemas de lubricación, aceite hidráulico y aceite de control (también conocido como Sistema de lubricación, hidráulica y control de aceite)

PF0804es Sistemas de componentes de combustión y combustible

PF0805es Sistema de soporte del generador

PF09 Turbina de combustión V84 (2000E)

PF0901es Turbina de combustión Siemens

PF0902es Sistemas de arranque y aire del generador de la turbina de combustión

PF0903es Sistema de lubricación, eje y aceite de control y el rotor

PF0904es Sistemas de combustible

PF0905es Control de la turbina de combustión

PF10 Caldera (Calderas de planta)

PF1001es Sección de vapor

PF1002es Circulación de la cortina de agua, supercalentadores y drenajes

PF1003es Economizador, recalentador, flujo de gas, reductor de temperatura de vapor y soplado de hollín

PF11 Generadores de vapor con recuperación de calor (plantas de ciclo combinado)

PF1101es Sección de vapor de la vasija

PF1102es Trayectorias de flujo y componentes del GVRC

PF1103es Sistemas auxiliares del GVRC

PF12 Ciclo de vapor / agua

PF1201es Condensador y agua de circulación

PF1202es Bombas

PF1203es Componentes del agua de alimentación y operación del ciclo

PF13 Sistemas de planta

PF1301es Sistemas de aire comprimido

PF1302es Válvulas, trampas, y tubería

PF14 Turbinas de vapor

PF1401es Panorama de los auxiliares de la turbina

PF1402es Entendiendo la térmica/mecánica

PF1403es Operación de la turbina

PF15 Generadores y Electricidad Básica

PF1501es Electricidad práctica básica

PF1502es Electricidad de corriente alterna (CA) y generadores

PF1503es Aspectos básicos del generador/excitador

PF16 Sistemas Eléctricos de Planta

PF1601es Sistemas de servicio de la planta y transformadores

PF1602es General Relaying (Interruptores eléctricos)

PF1603es Aspectos generales sobre relevadores

PF1604es Motores

PF17 Instrumentación y control de plantas

PF1701es Controles de las plantas eléctricas

PF1702es Entiendo los lazos de control

PF1703es Dispositivos en campo

PF18 Tratamiento de aguas

PF1801es Introducción a la química

PF1802es Componentes del sistema de tratamiento de agua

PF1803es Inscrustación, depósitos y obstrucción

PF1804es Remoción de minerales

PF19 Control de la contaminación (plantas de calderas)

PF1901es El medio ambiente

PF1902es Equipo para remoción de partículas

PF1903es Control de emisiones gaseosas

PF1904es Contaminación del agua

PF20 Control de emisiones (turbinas de gas)

PF2001es El medio ambiente

PF2002es Catalizadores

PF2003es Inyecciones de vapor y agua

PF2004es Contaminación del agua

PF21 Rendimiento de la planta

PF2101es Introducción al desempeño

PF2102es Eficiencia de la caldera

PF2103es Desempeño del ciclo de la turbina

PF2104es Pérdidas diversas

Mantenimiento Eléctrico

Nuestra serie de Mantenimiento Eléctrico contiene material didáctico relevante para electricistas.

EL01 Impresiones y dibujos

EL0102es Códigos y normas de seguridad

EL02 Códigos y normas eléctricas

EL0201es Códigos y normas de seguridad

EL0202es Riesgos de seguridad relacionados con equipos eléctricos

EL07 Motores y Generadores

EL0708es Solución de problemas de motor

Mantenimiento mecánico

Nuestra serie de Mantenimiento Mecánico contiene numerosos cursos de mecánica.

MM01 Mantenimiento de la bomba centrífuga

MM0102es Problemas de rendimiento en bombas centrífugas

MM02 Mantenimiento de rodamientos y lubricación

MM0209es Características de funcionamiento del cojinete

MM0210es Cojinetes de superficie

MM0211es Principios de rodamientos contacto

MM13 Mantenimiento de válvulas

MM1303es Características de funcionamiento de las válvulas

MM14 Mantenimiento de bomba de desplazamiento positivo

MM1401es Teorías de la bomba y las diferencias

MM17 Energía fluida (hidráulica)

MM1702es Componentes básicos comunes a los sistemas de potencia fluida

MM22 Mantenimiento de lubricación y análisis de aceite

MM2201es Fundamentos de lubricación

MM23 Alineación de eje asistida por láser

MM2301es Alineación de ejes

Instrumentación y Control

Nuestra serie de Instrumentación y Control contiene numerosos cursos para técnicos de instrumentación y control.

IE01 Corriente continua

IE0104es Evaluación del funcionamiento de un circuito de CC

IE02 Corriente alterna

IE0204es Evaluación del funcionamiento de un circuito de CA

IE08 Controladores lógicos programables

IE0801es Identificar los componentes principales de controladores lógicos programables

IE12 Instrumentación de control de procesos

IE1201es Uso de multímetros

Análisis de causa raíz

Las lecciones de ACR resumen varios temas con el propósito de utilizar procesos sistemáticos para identificar problemas e implementar soluciones que reduzcan esos problemas para que no vuelvan a ocurrir en el futuro.

RCA01 Análisis de causa raíz

RCA01es Para resolver problemas fundamentales



Lesson:

OS4001 - Reconocimiento de riesgos

Series:

OSHA

Description:

Esta lección inmersiva, altamente interactiva y basada en escenarios brinda la oportunidad de practicar el reconocimiento de los peligros que se encuentran comúnmente en un entorno industrial. En la lección, el usuario navega a través de cuatro recorridos en una instalación de generación de energía típica y debe identificar los peligros encontrados y la respuesta adecuada.

SafetySkills also has content available in Spanish as well as additional languages to support your global audiences. Contact us for a current list of translated content.

A través de nuestra asociación con SafetySkills, podemos ofrecer una amplia gama de lecciones adicionales de Seguridad, Medio Ambiente, Recursos Humanos y Herramientas del Gerente al catálogo GPiLEARN+.

Tenga en cuenta que los cursos con el prefijo "CAL" son cursos de CAL OSHA, el prefijo "SNP" se utiliza para indicar un microaprendizaje, y cualquier curso con un sufijo "can" son cursos basados en Canadá. Contáctenos para disponibilidad de idiomas adicionales.

Seguridad

Patógenos transmitidos por la sangre

BBP-1.2sp Patógenos transmitidos por la sangre

CAL-05.0sp Patógenos transmitidos por la sangre

Seguridad química

CHM-1.2sp Seguridad química

Peligros combustibles

FLL-1.2sp Líquidos inflamables y combustibles

Gases comprimidos

CGS-1.2sp Seguridad en el manejo de gases comprimidos

Espacio confinado

CFS-1.2sp Conocimiento del espacio confinado

Seguridad de la construcción

BCS-1.2sp Seguridad de la construcción

BCS-2.2sp Lesiones por golpes o por quedar atrapado entre dos objetos en construcción

EXC-1.2sp Excavación y zanjas

Grúas

OCS-1.2sp Seguridad de la grúa

OCS-2.2sp Seguridad de la grúa - Señales de mano

Seguridad Eléctrica

CAL-04.2sp Seguridad eléctrica/NFPA 70E

CAL-13.2sp Seguridad eléctrica - Arco eléctrico - Cal/OSHA

ELT-1.2sp Seguridad eléctrica/NFPA 70E

ELT-2.2sp Seguridad eléctrica - Toma de tierra

ELT-3.2sp Seguridad eléctrica de sobre 601 voltios

ELT-4.2sp Seguridad eléctrica - arco eléctrico

ELT-4.2sp Seguridad eléctrica/NFPA 70E - Arco eléctrico

Salud del empleado

CSW-1.2sp Estrés del frío en el lugar de trabajo

HSW-1.2sp Estrés por calor en el lugar de trabajo

MED-12.2sp Planificación de la pandemia de influenza para empresas

Seguridad del equipo

MCG-1.2sp Guardas de Maquinaria

Ergonomía

CAL-06.0sp Ergonomía industrial

ERG-1.2sp Ergonomía industrial

ERG-2.2sp Ergonomía de oficina

JSA-2.0sp Análisis de seguridad en el trabajo - prevención de lesiones de espalda

JSA-2.2sp Prevención de lesiones de espalda

MAT-1.2sp Manejo de materiales

Protección contra caídas

CAL-01.0sp Conocimiento de protección contra caídas

CAL-03.0sp Seguridad en escalera

FAL-1.2sp Protección contra caídas

FAL-2.2sp Sistemas activos de protección contra caídas

LDR-1.2sp Seguridad con escaleras

STF-1.2sp Resbalones/tropezones/caídas

Seguridad contra incendios

CAL-11.0sp Seguridad contra incendios

FRS-1.2sp Seguridad contra incendios

FRS-2.2sp Extintores portátiles

Primeros auxilios

BFA-1.2sp Primeros auxilios básicos

CAL-09.0sp Primeros auxilios básicos

Montacargas elevadoras

CAL-08.0sp Capacitación para operadores de montacargas: fundamentos

FLO-1.2sp Capacitación para operadores de montacargas

FLO-2.2sp Operación de montacargas – Módulo 1 – Seguridad de los Montacargas

- FLO-3.2sp** Operación de montacargas – Módulo 2 – Desplazamientos
- FLO-4.2sp** Capacitación del operador de montacargas - mantenimiento seguro

Comunicación peligrosa

- AUD-1.2sp** Realizando auditorías de seguridad
- GHS-1.2sp** Sistema globalmente armonizado (SGA)
- HZC-1.2sp** Comunicación de peligros
- MSD-1.2sp** Hojas de datos de seguridad
- OSH-3.2sp** Informes y mantenimiento de registros de OSHA

Compuestos peligrosos

- ASB-1.2sp** Conocimiento del peligro del asbesto
- PBA-1.2sp** Conocimiento de plomo

Hazmat

- EMR-1.2sp** Respuesta a emergencias
- HZW-1.2sp** Conocimiento de residuos peligrosos
- INV-1.2sp** Investigación del incidente

Conservación Auditiva

- HRC-1.2sp** La conservación de la audición

Bloqueo y etiquetado

- LOT-1.2sp** Bloqueo y etiquetado - Formato de competencia

Seguridad de petróleo y gas

- OGS-1.2sp** Procedimientos de seguridad H2S para operaciones de perforación y producción

Ascensores de personal

- BSS-2.2sp** Seguridad de elevador aéreo

PPE

- PPE-1.2sp** Equipo personal de protección

Protección respiratoria

- RSP-1.2sp** Protección respiratoria

Seguridad - Varios/Otros

- ALC-2.2sp** Tirador activo: correr/esconderse/luchar
- BBS-1.2sp** Seguridad basada en el comportamiento
- BOS-1.2sp** Seguridad de la oficina
- EAP-1.0sp** Planes de acción de emergencia para los empleados de oficina
- EAP-1.2sp** Planes de acción de emergencia para los empleados de oficina
- GEN-1.2sp** Orientación general de seguridad
- IND-1.2sp** Higiene industrial
- INO-1.2sp** Introducción a OSHA
- JSA-1.2sp** Análisis de seguridad laboral
- PPE-2.2sp** Seguridad manual y de punto de pellizco
- PSM-1.2sp** Manejo de la seguridad de procesos
- SVW-1.2sp** Clima severo y trabajo al aire libre
- SWA-1.2sp** Autoridad para detener el trabajo
- WHS-1.2sp** Seguridad del almacén

Andamio

- SCF-1.2sp** Seguridad del andamio

Seguridad de herramientas

- CAL-10.0sp** Seguridad de herramientas manuales y eléctricas
- HPT-1.2sp** Seguridad de herramientas manuales y eléctricas

Seguridad vehicular

- DRV-1.2sp** Seguridad del conductor
- DRV-2.2sp** Conductor distraído
- DRV-6.0sp** Conducción peligrosa
- DRV-6.2sp** Condiciones de manejo peligrosas

Seguridad de soldadura

- CAL-02.0sp** Trabajo en caliente/soldadura por arco



Lesson:

JSA-1.2 Análisis de seguridad laboral

Series:

Seguridad

Description:

Los empleados aprenderán sobre la necesidad de un análisis de riesgos de trabajo efectivo, cómo prepararse para uno, el proceso de identificación de riesgos en el lugar de trabajo, y cómo corregirlos. Este curso está dirigido a empleados de la industria general y oficiales de seguridad interesados en mejorar la seguridad de las prácticas laborales, ya sea en sus propios procesos de trabajo o en sus empresas.

Ambiental

Agua de tormenta

STW-2.2sp Prevención de contaminación de aguas pluviales para operaciones industriales

DOT Materiales peligrosos

HMT-03.2sp Marcado y etiquetado de materiales peligrosos

Política de medio ambiente

HZC-9.2sp Respuesta a derrames pequeños

HZW-1.2sp Conocimiento de residuos peligrosos (RCRA)

UWM-1.2sp Manejo universal de residuos

Seguridad de petróleo y gas

OGS-29.2 Seguridad de la vida silvestre para la industria del petróleo y gas

Recursos Humanos

Drug Free Workplace

HRM-8.0sp El lugar de trabajo libre de drogas

Hiring and Separation

ETH-2.2 Ley de Prácticas Corruptas en el Extranjero (FCPA)

Sexual Harassment and Discrimination

HRM-10.0 Prevención del acoso sexual para gerentes

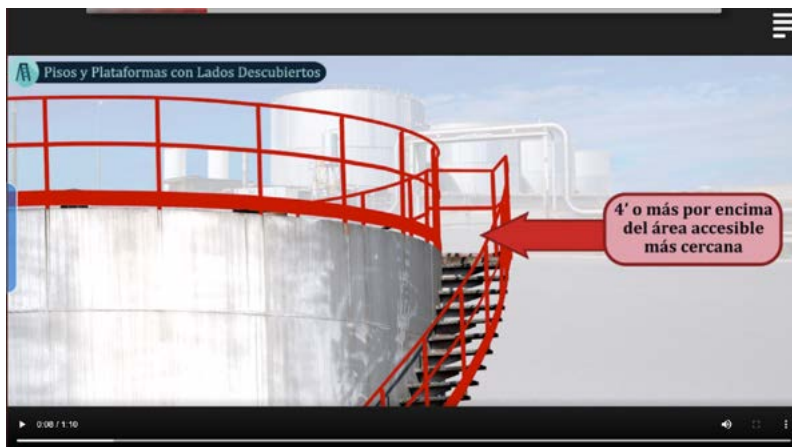
HRM-17.0 Acoso Sexual y Discriminación para Empleados

HRM-18.2 Acoso sexual y discriminación para gerentes en California

HRM-21.2 Acoso sexual y discriminación para empleados en California

Workplace Violence

HRM-7.2 Violencia en el lugar de trabajo



Lesson:

FAL-1.2 Protección contra caídas

Series:

Seguridad

Description:

Hay muchos tipos diferentes de trabajo y muchos tipos diferentes de riesgos de caídas. Este curso enseñará a los empleados la importancia y la práctica de la protección contra caídas constante. Los empleados aprenderán sobre los riesgos de caídas, cómo identificar los métodos de protección contra caídas, y varias prácticas seguras de trabajo.



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