

# 2021 ONLINE COURSE CATALOG

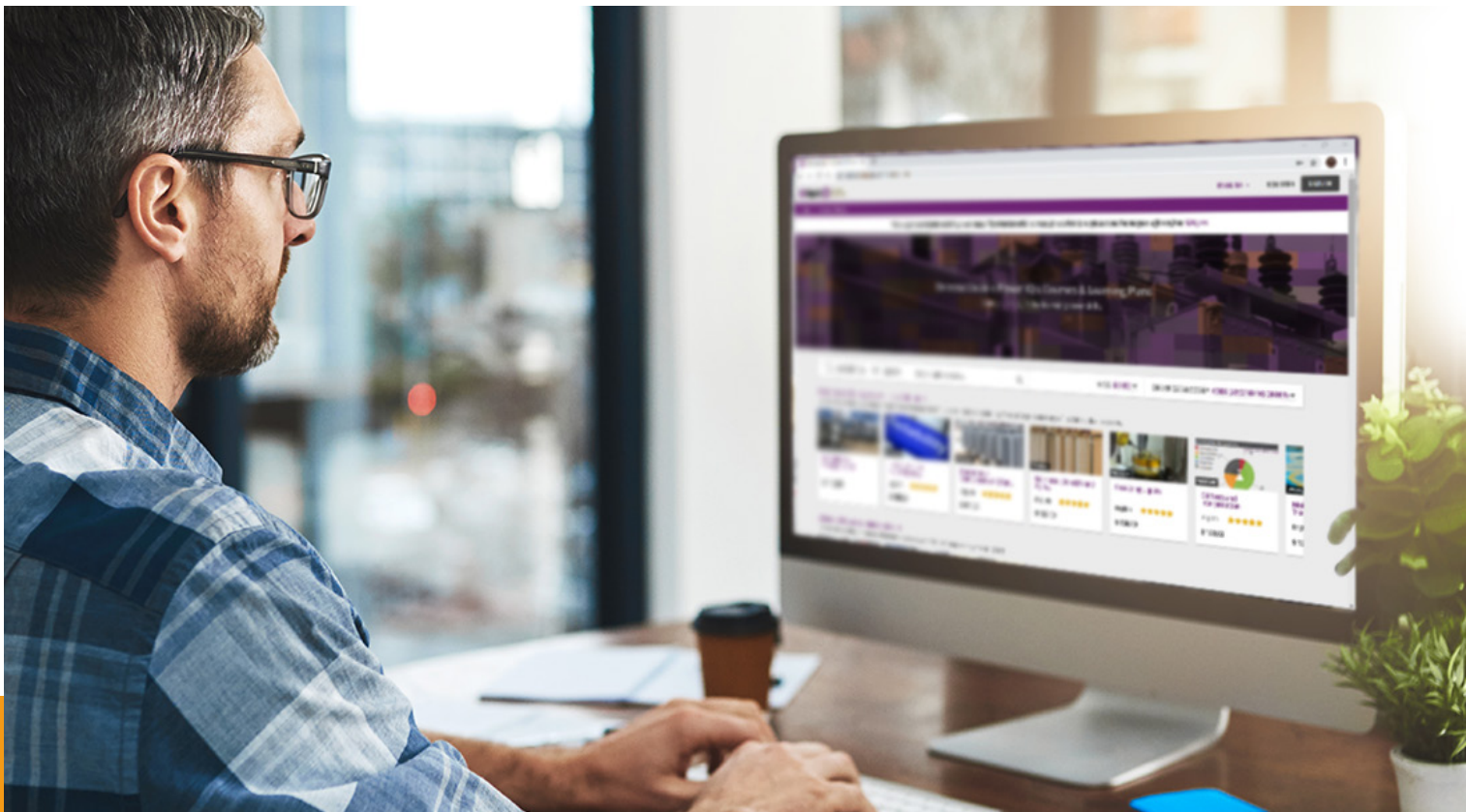
Training to boost your electric power reliability expertise.

## Welcome to a new year of Electric Power IQ training.

Join the SDMyers transformer and reliability experts as we embark on another year of Electric Power IQ training. For your convenience all courses are presented online, either live, on-demand, or both. Courses include:

- Industry credential opportunities (CEUs, PDHs, NETA CTD)
- Flexible learning plans
- Access to session recordings for a full year
- English and Spanish resources

Please review the course catalog for detailed information and training dates.



# TRANSFORMER MANAGEMENT 1

Embark on a comprehensive introductory course consisting of nine modules with a range of training sessions for each.

**TRANSFORMER MANAGEMENT 1 (TM1)** is intended to lay a strong foundation for those who are in any way responsible for transformer maintenance. Students will gain a basic understanding of transformers, oil and electrical tests,

maintenance principles, and the importance of a reliable electrical power system. Session dates and times are listed under each of the nine course sections (below).

**CREDITS EARNED: 2.05 CEUs/20.5 PDHs/20 NETA CTD**

The nine courses below compose the entire **TRANSFORMER MANAGEMENT 1** course.

## INTRODUCTION TO RELIABILITY CENTERED MAINTENANCE

**EARN .20 CEUs/2 PDHs/2 NETA CTD**

This course is designed to create awareness of transformer management from a reliability perspective.

DATES/TIMES	May 10, 2021 9:00 - 11:00 Eastern Time	September 20, 2021 9:00 - 11:00 Eastern Time
January 25, 2021 9:00 - 11:00 Eastern Time	June 21, 2021 9:00 - 11:00 Eastern Time	October 25, 2021 9:00 - 11:00 Eastern Time
March 15, 2021 9:00 - 11:00 Eastern Time	August 2, 2021 9:00 - 11:00 Eastern Time	December 13, 2021 9:00 - 11:00 Eastern Time

## TRANSFORMER COMPONENTS AND FUNCTIONS

**EARN .20 CEUs/2 PDHs/2 NETA CTD**

This course identifies transformer components and subcomponents. It describes the functions of the components and the elements of design that affect maintenance including core configuration, winding type, conductor material, solid insulation type, cooling, and oil preservation.

DATES/TIMES	May 10, 2021 1:00 - 3:00 Eastern Time	September 20, 2021 1:00 - 3:00 Eastern Time
January 25, 2021 1:00 - 3:00 Eastern Time	June 21, 2021 1:00 - 3:00 Eastern Time	October 25, 2021 1:00 - 3:00 Eastern Time
March 15, 2021 1:00 - 3:00 Eastern Time	August 2, 2021 1:00 - 3:00 Eastern Time	December 13, 2021 1:00 - 3:00 Eastern Time

## SOLID INSULATION LIFE AND AGING

**EARN .20 CEUs/2 PDHs/2 NETA CTD**

This class covers the importance of the solid insulation in transformers. Attendees take an in-depth look into the mechanical strength of the paper, and will understand that maintaining mechanical strength of the solid insulation is critical to extending the life of the transformer.

DATES/TIMES	May 11, 2021 9:00 - 11:00 Eastern Time	September 21, 2021 9:00 - 11:00 Eastern Time
January 26, 2021 9:00 - 11:00 Eastern Time	June 22, 2021 9:00 - 11:00 Eastern Time	October 26, 2021 9:00 - 11:00 Eastern Time
March 16, 2021 9:00 - 11:00 Eastern Time	August 3, 2021 9:00 - 11:00 Eastern Time	December 14, 2021 9:00 - 11:00 Eastern Time

## INSULATING LIQUIDS

**EARN .25 CEUs/2.5 PDHs/2.5 NETA CTD**

This course covers the four functions of insulating liquids in transformers. It identifies the aging mechanism of mineral oil, understand the use of inhibitor, and cover the application of alternate fluids.

DATES/TIMES	May 11, 2021 1:00 - 3:30 Eastern Time	September 21, 2021 1:00 - 3:30 Eastern Time
January 26, 2021 1:00 - 3:30 Eastern Time	June 22, 2021 1:00 - 3:30 Eastern Time	October 26, 2021 1:00 - 3:30 Eastern Time
March 16, 2021 1:00 - 3:30 Eastern Time	August 3, 2021 1:00 - 3:30 Eastern Time	December 14, 2021 1:00 - 3:30 Eastern Time

## OIL TESTS AND INTERPRETATION

### EARN .25 CEUs/2.5 PDHs/2.5 NETA CTD

This course covers sampling and inspection practices for fluid filled transformers. It covers routine and non-routine tests that can be performed and will identify industry standards for these tests.

<b>DATES/TIMES</b>	May 12, 2021 9:00 - 11:30 Eastern Time	September 22, 2021 9:00 - 11:30 Eastern Time
January 27, 2021 9:00 - 11:30 Eastern Time	June 23, 2021 9:00 - 11:30 Eastern Time	October 27, 2021 9:00 - 11:30 Eastern Time
March 17, 2021 9:00 - 11:30 Eastern Time	August 4, 2021 9:00 - 11:30 Eastern Time	December 15, 2021 9:00 - 11:30 Eastern Time

## MOISTURE IN TRANSFORMERS

### EARN .20 CEUs/2 PDHs/2 NETA CTD

This course addresses the problems created by moisture in transformers. It covers percent saturation, percent moisture by dry weight, and why those responsible for transformer maintenance need to understand the importance of managing moisture in their transformer fleet.

<b>DATES/TIMES</b>	May 12, 2021 1:00 - 3:00 Eastern Time	September 22, 2021 1:00 - 3:00 Eastern Time
January 27, 2021 1:00 - 3:00 Eastern Time	June 23, 2021 1:00 - 3:00 Eastern Time	October 27, 2021 1:00 - 3:00 Eastern Time
March 17, 2021 1:00 - 3:00 Eastern Time	August 4, 2021 1:00 - 3:00 Eastern Time	December 15, 2021 1:00 - 3:00 Eastern Time

## DISSOLVED GAS ANALYSIS (DGA) AND FURANS

### EARN .25 CEUs/2.5 PDHs/3 NETA CTD

This course covers the scope of DGA and the formation and sources of dissolved gases in mineral oil immersed transformers. It reviews the interpretation tools and guidance of the IEEE standards and cover how to identify furan content and how to understand furan testing.

<b>DATES/TIMES</b>	May 13, 2021 9:00 - 11:30 Eastern Time	September 23, 2021 9:00 - 11:30 Eastern Time
January 28, 2021 9:00 - 11:30 Eastern Time	June 24, 2021 9:00 - 11:30 Eastern Time	October 28, 2021 9:00 - 11:30 Eastern Time
March 18, 2021 9:00 - 11:30 Eastern Time	August 5, 2021 9:00 - 11:30 Eastern Time	December 16, 2021 9:00 - 11:30 Eastern Time

## ELECTRICAL TESTING OF TRANSFORMERS

### EARN .25 CEUs/2.5 PDHs/2.5 NETA CTD

This course covers the various field electrical tests performed. It covers a description of the test, the purpose of each test, and how to interpret the results. This class includes several case studies for real-world examples.

<b>DATES/TIMES</b>	May 13, 2021 1:00 - 3:30 Eastern Time	September 23, 2021 1:00 - 3:30 Eastern Time
January 28, 2021 1:00 - 3:30 Eastern Time	June 24, 2021 1:00 - 3:30 Eastern Time	October 28, 2021 1:00 - 3:30 Eastern Time
March 18, 2021 1:00 - 3:30 Eastern Time	August 5, 2021 1:00 - 3:30 Eastern Time	December 16, 2021 1:00 - 3:30 Eastern Time

## APPLIED TRANSFORMER MAINTENANCE

### EARN .25 CEUs/2.5 PDHs/2 NETA CTD

This course covers the importance of extending the reliable life of the transformer by mechanical maintenance, electrical maintenance, and fluid maintenance. It will cover the corrective processes used in extending the life of the insulation system of the transformer. It compares/contrasts these oil processes and their performances.

<b>DATES/TIMES</b>	May 14, 2021 9:00 - 11:30 Eastern Time	September 24, 2021 9:00 - 11:30 Eastern Time
January 29, 2021 9:00 - 11:30 Eastern Time	June 25, 2021 9:00 - 11:30 Eastern Time	October 29, 2021 9:00 - 11:30 Eastern Time
March 19, 2021 9:00 - 11:30 Eastern Time	August 6, 2021 9:00 - 11:30 Eastern Time	December 17, 2021 9:00 - 11:30 Eastern Time

# TRANSFORMER MANAGEMENT 2

NOVEMBER 9 - 11, 2021 | 9:00 - 4:00 EASTERN TIME

Take a deep dive into reliability-centered maintenance and life-cycle management during these in-depth three-day courses.

**TRANSFORMER MANAGEMENT 2 (TM2)** is for the person who understands all the individual components of transformer maintenance including oil testing, electrical testing, and maintenance standards and is responsible for applying these components. This course walks the attendee

through the decision-making process of understanding the importance of the equipment, determining what maintenance to perform and when to perform it, based on Reliability Centered Maintenance procedures.

**CREDITS EARNED: 1.8 CEUs/18 PDHs/18 NETA CTD**

# TRANSFORMER MANAGEMENT 3

APRIL 27 - 29, 2021 | 9:00 - 4:00 EASTERN TIME

**TRANSFORMER MANAGEMENT 3 (TM3)** examines the lifecycle of the transformer, including new equipment purchasing specifications, transportation, installation and start-up, and reliability management. This includes the key process of managing each step, from factory testing

to final energization. This final course in the Transformer Management Series is the summation of the technical training process. Level 3 is for the person who is the lead or manager of transformers and substations.

**CREDITS EARNED: 1.8 CEUs/18 PDHs/18 NETA CTD**

## SPECIAL TOPICS

Explore 3-hour workshops that enhance your understanding of dissolved gas analysis and proper inspection and sampling of fluid-filled transformers.

### DISSOLVED GAS ANALYSIS (DGA) WORKSHOP

**EARN 0.3 CEUs/3 PDHs/3 NETA CTD**

This course takes a deep dive into the importance of DGA, what industry standards state, how to use test interpretation tools, and how to apply the test results to increase the reliable life of the transformer. The instructor and class will work through actual test results, apply the different interpretation tools to the data, then work together to make recommendations for solutions for corrective action(s) on the unit.

DATES/TIMES	February 2, 2021 10:00 - 1:00 Eastern Time	May 18, 2021 10:00 - 1:00 Eastern Time	August 10, 2021 10:00 - 1:00 Eastern Time	November 2, 2021 10:00 - 1:00 Eastern Time
-------------	---	---	--	---

### INSPECTION & SAMPLING OF TRANSFORMERS

**EARN 0.3 CEUs/3 PDHs/3 NETA CTD**

This course reviews the proper and safe procedures needed to obtain a representative sample of dielectric fluids. It covers personal protective equipment, special care transformers, visual inspection, gauges, nameplates, sampling containers, proper methods and techniques, packaging, and applying nitrogen.

DATES/TIMES	March 23, 2021 10:00 - 1:00 Eastern Time	June 29, 2021 10:00 - 1:00 Eastern Time	September 28, 2021 10:00 - 1:00 Eastern Time	December 21, 2021 10:00 - 1:00 Eastern Time
-------------	---	--	---	--

## TRANSFORMER LIFE EXTENSION - KNOWING & CONTROLLING THE LIFE OF YOUR TRANSFORMER

EARN 0.4 CEUs/4 PDHs/4 NETA CTD

This course provides key information on:

- The best ways to manage moisture problems
- The benefits of reclaiming vs. letting it go another year
- Management of the temperature to extend the life... additional cooling?
- Reviewing your policy on utilizing inhibitors in your dielectric fluids

**DATES/TIMES:** 4-hour duration over 2 days

## RAISING YOUR ELECTRIC IQ IN INTERPRETATION OF DIELECTRIC FLUID TEST RESULTS

EARN 0.4 CEUs/4 PDHs/4 NETA CTD

This course provides key information on:

- Understanding key test results from power factor, furan, various moisture calculations, ICP metals
- How to find the right solution when you receive poor results

**DATES/TIMES:** 4-hour duration over 2 days

## MAXIMIZING THE VALUE OF ELECTRICAL TESTING IN THE LIFE OF YOUR TRANSFORMER

EARN 0.4 CEUs/4 PDHs/4 NETA CTD

This course provides key information on:

- What tests should be done
- Diagnostic testing and how various conditions can affect testing
- Acceptance testing
- Maintenance testing

**DATES/TIMES:** 4-hour duration over 2 days

## SDMYERS MAXLIFE STANDARDS: HOW YOU CAN USE THEM TO MAXIMIZE THE LIFE OF YOUR TRANSFORMER

EARN 0.2 CEUs/2 PDHs/2 NETA CTD

This course provides key information on:

- Why we recommend your opinion change regarding test standards for moisture results
- Oxidation levels
- Power factor readings

**DATES/TIMES:** 2-hour duration

## BUILD A RELIABILITY CENTERED MAINTENANCE PROGRAM FOR YOUR TRANSFORMER

EARN 0.4 CEUs/4 PDHs/4 NETA CTD

This course provides key information on:

- ISO 55000 and what it means to you
- Remaining useful life and impact of failure to steer your decisions
- Criticality analysis
- Forensics analysis
- Understanding the life cycle of your transformers

**DATES/TIMES:** 4-hour duration over 2 days

# ON-DEMAND MODULES

**ON-DEMAND TRAINING:** Take any of our individual modules at the pace that suits you best—online and on demand.

## TRANSFORMER MANAGEMENT 1 MODULES

Transformer Management 1 (TM1) lays a strong foundation for those who are in any way responsible for transformer maintenance. Students will gain a basic understanding of transformers, oil and electrical tests, maintenance principles, and the importance of a reliable electrical power system.

### Content Outline

#### Session 1: Introduction to Reliability Centered Maintenance

- Selecting the Best Transformer Maintenance Strategy
- Key Factors in Your RCM Program
- Prioritizing and Managing Your Risks

#### Session 2: Transformer Components & Functions

- Core Steel and Core Configurations
- Conductors and Windings
- Solid Insulation

#### Session 3: Solid Insulation Life & Aging

- Short Circuit Forces
- Mechanical Strength
- Solid Insulation Aging

#### Session 4: Insulating Liquids

- 4 Functions of Insulating Liquids
- Oxidation Inhibitor
- Alternate Fluids

#### Session 5: Oil Tests & Interpretation

- Liquid Screen Tests
- Other Routine Tests

#### Session 6: Moisture in Transformers

- Problems Created in Your Transformer
- Understanding Percent Saturation
- Percent Moisture by Dry Weight

### Learning Format

The entirety of TM1 has been divided between 32 Modules. The format of the modules is prerecorded live lectures, video presentations & interactive activities. All sessions conclude with a knowledge-check quiz. Each module can be taken on-demand at the attendee's convenience within one year of first access.

#### Session 7: Dissolved Gas Analysis & Furans

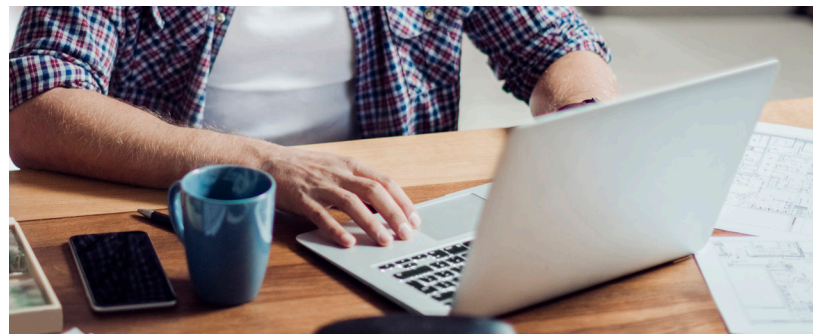
- Why Dissolved Gas Analysis?
- Qualitative Method
- Quantitative Method
- Furans
- Revision of IEEE DGA Guide of 2019

#### Session 8: Electrical Testing

- Electrical Testing Overview
- Routine Electrical Testing Part 1
- Routine Electrical Testing Part 2
- Electrical Testing of Bushings
- Sweep Frequency Response Analysis (SFRA)

#### Session 9: Applied Transformer Maintenance

- Mechanical Maintenance
- Electrical Maintenance
- Oil Processing
- Moisture Reduction Options
- Oil Maintenance for Aging



## ELECTRICAL SKILLS SERIES

The electrical training courses cover the fundamentals of electricity and progress through how to safely maintain, troubleshoot, and repair industrial electrical equipment.

### Electrical Print Reading Learning Plan

This comprehensive interactive multimedia training program consists of two individual lessons that train participants to read and interpret wiring diagrams, single line diagrams, building electrical diagrams, and ladder diagrams.

- Electrical Schematics
- Electrical Diagrams

### Electrical/Electronic Test Equipment Learning Plan

This comprehensive interactive multimedia training program consists of three individual lessons that train participants how to properly use multimeters, megohmmeters, clamp-on ammeters, wheatstone bridges, and oscilloscopes.

- Multimeters
- Oscilloscopes
- Ammeters, Meggers, and Wheatstone Bridge

### Electrical Theory for Troubleshooters Learning Plan

This comprehensive interactive multimedia training program consists of seven individual lessons that train participants in the principles of AC/DC and solid-state theories. Digital electronic theory is also introduced.

- Ohm's Law
- AC Characteristics
- Three Phase AC Circuits
- Semiconductors and Diodes
- Rectifiers and Filters
- Power Devices
- Introduction to Digital Devices

### Digital Electronic Theory Learning Plan

This comprehensive award-winning interactive multimedia training program consists of four individual lessons that train participants to understand the operation of various types of digital circuits and to effectively troubleshoot those circuits.

- Binary Logic Circuits
- Codes, Encoders, Decoders, and Flip-Flops
- Counters and Shift Registers
- Data Transmission, Conversion, and Storage

### Conduit Installation Learning Plan:

This comprehensive interactive multimedia training program consists of one lesson that trains participants on identifying and applying the basic materials of a conduit system, as well as general practical methods of bending and installing conduit.

- Conduit Bending and Installation

### AC and DC Motors Learning Plan

This comprehensive interactive multimedia training program consists of four individual lessons that train participants to understand, maintain, and test AC and DC motors.

- AC Motor Theory
- AC Motor Maintenance
- DC Motor Theory
- DC Motor Maintenance

### Programmable Controllers

This comprehensive interactive multimedia training program consists of three individual lessons that train participants to understand programmable controller system operations; interpret power flow through ladder logic; and define principles of operation, characteristics, and capabilities of analog control using programmable logic controllers.

- Principles of Operation
- Interpreting Ladder Logic
- Programmable Controllers for Analog Control

### Electrical Control Equipment

This comprehensive award-winning interactive multimedia training program consists of six individual lessons that train participants to understand the operation of and how to troubleshoot circuit breakers, limit switches, overload relays, motor starters, and electrical control circuits.

- Fuses and Circuit Breakers
- Limit Switches
- Switches, Coils, and Overloads
- Magnetic Starters
- Troubleshooting Electrical Control Circuits
- Inverters - Operation and Maintenance

# ON-DEMAND MODULES

## COMPLIANCE SERIES

This series relates to regulations compliance. The courses below contain audio and/or video to help keep students engaged, ensure training goes as quickly as possible, and lead to a high retention rate of the information presented.

### Aerial Boom Lifts

This online certification safety training course presents an overview of safe operating procedures from aerial boom lifts. This course covers the responsibilities of owners, supervisors, and operators. It covers hazards from uneven surfaces, falling, electric shock, equipment collapse, inclement weather, nearby work, inexperience or improper operation, mechanical defects, and inadvertent operation.

### Ammonia Refrigeration

This course is designed to assist employers and employees in identifying and controlling the hazards associated with the operation and maintenance of ammonia refrigeration systems. This course consists of ammonia Receiving and Store, Safety, and Emergency Response modules. This online course satisfies the training requirements for the OSHA 29 CFR § 1910.119 Ammonia Refrigeration Process safety management of highly hazardous chemicals.

### Arc Flash Study

This course presents an overview of measures to reduce hazards presented by arc flash events. It covers basic electrical concepts, circumstances that can present the risk of arc flashes, electrical industry safety standards, and hazard control measures when work responsibilities cause you to work on or near equipment at risk for arc flash. Because of the nature of arc flash events, we will review the regulations for both electrical and fire safety.

### Bloodborne Pathogens

This course presents an overview of the U.S. Occupational Safety and Health Administration (OSHA) Bloodborne Pathogens Standard, including an explanation of the history and creation of the standard and its updates. It also discusses some of the scenarios in which a person might sustain a needlestick injury, the potential pathogens one may be exposed to in the workplace, and ways to prevent and respond to potential injury.

### Confined Space Entry

This confined space training course presents an overview of the OSHA Confined Spaces regulations as they relate to competent entrants and attendants. It covers basic concepts and a general overview of the regulations, including proper methods and rules that authorized entrants and attendants must follow before, during, and after confined space entry.

### Confined Space Competent Person/Supervisor

This course presents an overview of the OSHA Confined Space Entry regulations as they relate to the competent person entry supervisor. It covers basic concepts and a general overview of the regulations, including proper methods and rules that competent entry supervisors must follow before, during, and after confined space entry. Persons taking this course should already have received Permit/Non-Permit Confined Space Entry training.

### Construction Asbestos Awareness

This asbestos awareness training course covers requirements for regulating asbestos exposure in the construction industry. The focus of this course is to familiarize you with the standard for safely working with materials that may contain asbestos. This course was developed primarily for use in North America but certainly is appropriate for international audiences.

### Construction Confined Space Entry

This online course provides basic safety training to help understand the hazards associated with construction industry confined spaces, both physical and atmospheric, and preventative measures against them. The course includes information on protective, monitoring, and testing equipment; safety regulations and why they are in place; and the roles and responsibilities of employers, entrants, and attendants in preventing these casualties.

### Construction Confined Space Competent Person/Supervisor

This course provides basic safety training to help understand the hazards associated with confined spaces, both physical and atmospheric, and preventative measures against them. The course includes information on protective, monitoring, and testing equipment; safety regulations and why they are in place; and the responsibilities of employers and supervisors in preventing these casualties.

### Construction Electrical Safety

This training is intended as an overview of the Constructional Electrical Standard, providing explanations of the various requirements set by OSHA. The approach is to cover hazard identification, avoidance, and control, along with practical information on safe work practices.



# ON-DEMAND MODULES

## COMPLIANCE SERIES, CONT.

### Construction Fall Protection

This course presents an overview of construction fall protection - the hazards, safety measures, and regulations required to be in compliance with Occupational Safety and Health Administration (OSHA) standards. This course also covers the responsibilities of employers and employees as well as proper equipment usage and the different systems for fall prevention available.

### Construction Lead Awareness

This training is intended as an overview of 29 CFR 1926.62; training on how to apply these regulations to specific situations and tasks should be provided by your organization or other resources. You might need additional training on hazards and safety.

### Construction Lockout Tagout

This course is targeted to employees in the construction industry that work around energized machines or equipment, and will also cover a related, general industry standard: 29 CFR 1910.147 the Control of Hazardous Energy or Lockout Tagout. This Construction Lockout Tagging of Circuits course describes hazard identification, avoidance, and control, along with practical information on safe work practices.

### Construction Roadway Temporary Traffic Control Safety Training

This course provides an overview of traffic control during roadway construction.

### Construction Scaffolding

This course covers the OSHA Safety Standards for Scaffolds used in the Construction Industry standard (1926 subpart L) and is targeted to employees of organizations that must use or erect and/or dismantle different types of scaffolding utilized in the construction industry. The approach of this course is to cover hazard identification, control, and checklists for specific types of scaffolds.

### Construction Silica Safety

This course presents an overview of the dangers of silica, specifically in construction. The course covers safe work procedures where workers are exposed to silica. The focus of this course is to familiarize you with practices that decrease the risk of exposure and to offer best practices for mitigating the dangers of exposure to silica in construction.

### Construction Steel Erection

The goal of this course is to help you understand the risks involved in working steel erection jobs. We will review some common hazards and the ways in which these vary in different environments and job stages, design decisions that can help prevent and isolate these hazards, and practices that will reduce the likelihood of injury.

### Electrical Safety

This course addresses electrical safety requirements to safeguard employees and contractors who work near exposed energized parts, electrical equipment, and wiring in hazardous locations. This training is designed to help protect persons exposed to dangers such as electric shock, electrocution, fires, and explosions.

### Exit Routes, Emergency Action, Fire Prevention, and Protection

This course provides a description of the design and construction requirements for exit routes, the maintenance, safeguards, and operational features of exit routes, as well as various forms of fire detection and suppression systems. It also presents an overview of the rules and regulations associated with the safe evacuation of a building through the use of exit routes and the fire protection standard during a fire emergency.

### Eye and Face Protection

This online course presents an overview of the OSHA eye and face protection standards, which are used in a variety of industries. The course will cover the responsibilities of employees and employers alike, as well as industry standards for eye and face protection in the workplace. It will cover hazards from dust, heat, chemicals, optical radiation, and more. You will also learn about the injuries workers can suffer to their eyes and face without PPE, and how to prevent and treat them.

### Fire Extinguishers

This course covers the OSHA regulations for portable fire extinguishers. It describes the standard, risks, placement, use, maintenance, and testing of portable fire extinguishers provided for use by employees.

### Forklift Safety

This course will familiarize you with the regulations, responsibilities, and best practices as outlined in the CFR 1910.178(a) requirements for forklift operators and forklift maintenance. Keep in mind that your skill in operating a forklift protects not only your well-being but the well-being of the people you work with and the safety of the environments you work in. Your forklift skills can prevent costly material damage, life-altering injuries, and even death.

## COMPLIANCE SERIES, CONT.

### GHS Hazard Communication (Workers Right to Know)

This course presents an overview of the requirements of OSHA's Hazard Communication Standard, which requires the development and dissemination of information about the identities and hazards of chemicals used in the workplace. The course covers a variety of topics related to chemical hazard communication, including but not limited to the importance of the Hazard Communication Standard, the necessity of a written hazard communication program at every workplace where employees are at risk of exposure to hazardous materials, the proper labeling of chemicals, and information on Safety Data Sheets (SDSs). The course also includes information on blood-borne pathogens, which are biological agents that can be hazardous to health. This course has been designed specifically for workers in general industry settings.

### Hand and Power Tool Safety

This hand and power tool safety training course covers OSHA Hand and Power Tool Safety standards, focusing on General Industry 29 CFR 1910 Subpart P. Employees should be trained in the proper use of all tools and be able to recognize the hazards associated with different types of tools and required safety precautions.

### Hazardous Waste Safety

This course presents an overview of the Hazardous Waste safety guidelines set forth by the Occupational Safety and Health Administration (OSHA). Topics include recognizing and identifying hazardous wastes, minimizing exposure to hazardous wastes, implementing safety and health programs, and completing required training.

### HAZWOPER 40-Hour

This course covers the Hazardous Waste Operations and Emergency Response (HAZWOPER) standard. The HAZWOPER standard is a set of OSHA-created guidelines that regulate hazardous waste operations. Proper safety training ensures that workers understand and comply with these standards to maintain a safe worksite and minimize risks for employees and the environment.

### HAZWOPER 24-Hour

This course discusses the U.S. Federal Hazardous Waste Operations and Emergency Response (HAZWOPER) standard. This standard covers how the United States defines materials and waste as hazardous and explains the regulations set forth to ensure worker and environmental safety. It also provides the information needed to safely run a functioning site that contains hazardous materials, including the steps to prevent and control emergency situations related to hazardous materials.

### HAZWOPER 8-Hour Annual Refresher

This online, 8-hour refresher training course satisfies the OSHA annual HAZWOPER refresher training requirements for workers, managers, and supervisors as outlined in 29 CFR 1910.120 and 1926.65.

Every day, workers in various business industries come in close contact with hazardous materials. Without proper safety training, exposure to hazardous materials can pose short- and long-term threats to their health and safety. The federal Hazardous Waste Operations and Emergency Response (HAZWOPER) standard regulates hazardous waste operations from inception to disposal.

People who work in hazardous waste operations and those involved in emergency response must complete annual HAZWOPER 8-hour refresher training as required by 29 CFR 1910.120. Our online certification course provides in-depth training in hazard recognition, exposure limits, general site safety concerns, and more.

### Hearing Conservation and Protection

This course is targeted to employees who are exposed to excessive noise in the workplace and covers OSHA Hearing Protection standards, focusing on General Industry (29 CFR 1910.9).

### Heat Stress, Illness, and Injury Safety

This course is designed to help you achieve a general awareness of the risks associated with working in conditions in which heat stress and illness can occur. It highlights practices that workers and employers can apply to ensure proper protection from heat, including pre-work preparations, personal protective equipment (PPE), and training. In addition, it provides first-response measures to take in the event that a worker experiences heat stress or illness.

### Hot Work Construction

This course covers various types of hot work; responsibilities for employers and employees for setting up and following hot work procedures; hazards associated with the various types of hot work; federal regulations and requirements regarding hot work; steps necessary for assessing risk when performing hot work; and best practices for safely performing hot work.

### Ionizing Radiation Safety

This course presents an overview of the OSHA Ionizing Radiation Standard, which is aimed at mitigating the dire effects of excessive exposure to ionizing radiation in occupational settings. The course covers a variety of topics related to ionizing radiation, including the sources of ionizing radiation in occupational settings and the health risks of ionizing.

## COMPLIANCE SERIES, CONT.

### Ladder and Stairway Safety

This online course presents an overview of ladder and stairway safety. It covers basic concepts, industry safety regulations and standards, responsibilities in the workplace, the hazards of working on and around ladders and stairways, different types of ladders and their intended uses, and hazard control measures to follow when you use a ladder or stairway to accomplish job tasks in your workplace.

### Laser Safety

This online training course covers basic concepts, an explanation of the different types of lasers and their hazards, links to industry safety standards, and hazard control measures to follow when duties require you to operate a laser or to be present when a laser is in use in your workplace. It also presents case studies to emphasize the need for laser safety training in the workplace.

### Lockout Tagout

This General Industry online training course covers the OSHA Control of Hazardous Energy (Lockout/Tagout) standard. This course is targeted at employees of organizations that work around energized machines or equipment. No prerequisite knowledge is required.

### Machine Guarding Safety

This online machine guarding course describes the standard, examples of machines and their potential hazards, and various controls that can be used to protect the health and safety of workers from moving machinery hazards.

### Mold Abatement, Remediation, & Removal

This course is designed to assist employers and employees in understanding the steps to working safely where exposure to mold is likely, in both the construction and general industry. This course will discuss the agencies and the regulations that exist, and it will help you to understand and identify mold, what causes mold, and the best methods of remediation.

### Office Ergonomics

This online training course in office ergonomics covers numerous topics addressed in Occupational Safety and Health Administration (OSHA) regulations. For example, participants learn about the recommended OSHA desk height, OSHA office chair regulations, and many other office safety training topics.

### Personal Protective Equipment for General Industry

This online personal protective equipment course describes the relevant standards, different types of PPE, and the hazards they protect against.

### Respiratory Protection

This online respiratory protection training course describes the standard, hazard identification, avoidance, and control, covering a variety of respiratory protection-related topics, along with practical information on safe work practices. This course is targeted to employees of organizations that must wear respiratory protection because of potential exposure to workplace hazards.

### Scissor Lift Safety

This course presents an overview of safe operating procedures for scissor lifts, including the responsibilities of owners, supervisors, and workers, hazards from uneven surfaces, falling, overloading, electrocution, overextension, nearby work, inclement weather, inexperience or improper operation, mechanical defects, and inadvertent operation.

### Trenching and Excavation Safety

This course is designed to assist both employers and employees to achieve compliance with OSHA standards regarding trenching and excavation safety. They will learn to identify hazards encountered when working in or near trenching and excavation sites and correction of these hazards, soil testing methods, trench protection systems, and general safety requirements.

### Walking Working Surfaces and Personal Fall Protection Systems

This course covers OSHA 29 CFR 1910 Walking Working Surfaces and Personal Fall Protection Systems, which addresses the hazards posed by slips, trips, and falls around the workplace. It also describes the standard, potential slip, trip, and fall hazards in a work environment, and hazard controls that can be used to protect the health and safety of workers.

### Workplace First Aid Overview

This online certification course provides OSHA and MSHA first aid training to help employees stay safe.

## BASIC SKILLS SERIES

The basic skills training courses will empower your workforce with the knowledge, skills, and support to perform their jobs comfortably, safely, and effectively. These courses include multiple learning styles, learner-led control, engaging learning activities, retention practices, comprehensive assessment mechanisms, feedback prompting, modularized lessons, and a variety of other instructional design concepts that have been specifically engineered with the capabilities of the technology environment in mind.

### Applied Mathematics Learning

This comprehensive interactive multimedia training program, consisting of nine individual lessons, trains participants to improve their mathematical skills from whole number operations through algebra, geometry, and statistics. This program emphasizes problem solving skills, using real-life examples from both the work and home environments.

- Whole Number Operations
- Decimals
- Fractions
- Percent, Ratio, and Proportion
- Positive and Negative Numbers, Powers, and Roots
- Introduction to Algebra
- Measurement
- Introduction to Geometry
- Introduction to Statistics

### Reading and Writing Enhancement Learning Plan:

This program trains participants to improve reading and writing skills on the job through instruction and practice with realistic workplace applications. The program also includes a diagnostic pretest which can be used to place participants at the appropriate lesson in the program.

- Procedures and Instructions
- Forms and Applications
- Memos and Logs
- Workplace Information Documents

## SAFETY SKILLS SERIES

Safety Skills Training educates and empowers you on how to recognize and prevent at-risk conditions or behaviors before they lead to an incident. Our safety skills courses include multiple learning styles, learner-led control, engaging learning activities, retention practices, comprehensive assessment mechanisms, feedback prompting, modularized lessons, and a variety of other instructional design concepts that have been specifically engineered with the capabilities of the technology environment in mind.

### Electrical Safety Learning Plan:

This learning plan consists of ten lessons. The lessons in this learning plan were designed to provide training for electricians, mechanics, and others working with or around electricity. The lessons in this learning plan provide an understanding of electricity focused on increased awareness and prevention of industrial accidents.

- Working Safely with Electricity
- Eye and Face Protection
- Electrical Circuits and Supplies
- Protective Helmets
- Electrical Shock
- General Protective Equipment
- Safe Electrical Practices
- Lockout/Tagout
- Protective Gloves & Sleeves
- Hazard Communication

# ON-DEMAND MODULES

## DRY-TYPE TRANSFORMER MODULES

### Dry-Type Transformers Module 1 - Design Comparison & Purchasing Consideration

EARN .03 CEUs/1 NETA CTD

ON DEMAND

### Dry-Type Transformers Module 2: The Selection Process

EARN .03 CEUs/1 NETA CTD

ON DEMAND

### Dry-Type Transformers Module 3: Transformer Maintenance

EARN .03 CEUs/1 NETA CTD

ON DEMAND

## Get started!

Registration is now open, and you can get started today at [courses.sdmyers.com](https://courses.sdmyers.com).

For information or to speak with an Electric Power IQ training advisor, please contact your regional representative.



#### East of the Mississippi & Canada:

Tara Tisevich, Training Advisor  
tara.tisevich@sdmyers.com  
330.630.7000 ext. 4018  
330.730.7107



#### West of the Mississippi & International:

Traci Hopkins, Sr. Training Advisor  
traci.hopkins@sdmyers.com  
330.630.7000 ext. 3485  
330.571.9283

