

DISTRIBUTION OPERATIONS TRAINING helps operators understand the increasingly complex distribution system. Our training provides a working knowledge of how distribution systems are configured and function while addressing electrical fundamentals, reliability control, smart devices, and safety.

Distribution Control Center Operations Training – Level 1

Basic Distribution

301-09	Introduction to Distribution Systems
301-10	Distribution Design and Resource Planning
301-11	Distribution Substation Equipment
301_12	Distribution Protection

301-12	Distrib	ution	Pro	tec	ction	
	_	1.				

301-13	Overvoltage Protection
301_1/	SCADA and FMS

301-15 Service Entrance Equipment

301-16 Distribution Normal Operations

301-17 Distribution Emergency Operations

Electrical Safety

301-19 Safe Working Practices

301-20 Arc Flash Analysis and Safety Equipment

301-21 Switching Practices

301-22 Post-storm Electrical Safety

Fundamentals of System Protection

375-17 Generation

387-31 Transmission, Substation, and System Protection

387-32 Control Center Operations and Governance

Distribution Control Center Operations Training - Level 2

Advanced Distribution

301-23	Distrib	utior	n Reliability
	_	_	La c

301-24 Power Quality

301-25 Planned Maintenance and Test Equipment

301-26 Smart Grid System

Distribution Simulation

10 Scenario Bundle

Simulator Orientation Tutorial
Isolating Equipment – Valley Feeder Breaker

Isolating Equipment - Lake Regulator 2

Fault - Lake Feeder 4

Isolating Equipment - Valley Transformer 3

Fault - Ocean Feeder 3

Isolating equipment – Lake Transformer 1

Fault - Lake Feeder 4, Version 2

Fault - Lake Feeder 6, Unquided

Fault - Valley Feeder 2, Unguided

5 Scenario Bundle

Fault - Lake Feeder 4, Unguided

Restoring System - Lake Transformer 1

Fault #2 – Lake Feeder 4, Unguided

Isolated Lake Regulator 2, Unguided

Isolated Valley Transformer3, Unquided

INSTRUCTOR-LED TRAINING

Advanced Distribution Concepts

Distribution Systems

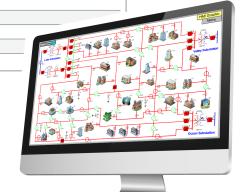
Electric Power System Operations

Electrical Safety

hsi.com/industrial-skills

800.447.3177

industrial-skills@hsi.com



Contined >

DISTRIBUTION TECHNICIAN TRAINING provides training to help your team minimize

maintenance downtime and get equipment running again quickly after an outage. The training focuses on the processes and equipment distribution technicians work with every day and makes sure they understand how to keep themselves and their coworkers safe.

Qualified Electric Worker

140-01	General Concepts and Job Briefings
140-02	Enclosed Spaces
140-09	Electrical Clearances
140-11	Mechanical Equipment
140-18	Dog Bite Prevention

Electrical Transmission and Distribution

Distribution Systems

	,
301-02	Electrical Distribution System Fundamentals
301-03	Primary and Secondary Distribution Systems
301-04	Distribution System Components and Application
301-05	Characteristics of Distribution Switchgear
301-06	Ohm's Law, Energy Formulas, Basic Concepts Circuits
301-08	Single- and Poly-Phase Metering

Electrical Maintenance

Direct Current (DC)

401-01	Electron Theory
401-02	Magnetism and Electromagnetism Explained
401-03	Ohm's and Kirchoff's Laws Relating to DC Circuits
401-04	Evaluating Series and Parallel DC Circuit Performance
401-05	Determine Circuit Outputs from Specified Inputs

Altern	ating Current (AC)
402-01	Introduction to Alternating Current (AC)
402-02	Ohm's and Kirchoff's Laws Involving AC Circuits
402-03	Inductance in AC Circuits
402-04	Capacitance in AC Circuits
402-05	Impedance in AC Circuits
402-06	AC Power
402-07	Fundamentals of Three-Phase AC

Power Quality

405-01	Power Quality
405-02	Harmonics
405-03	High Voltage AC

Industrial Motors

maact	maderial metere	
409-01	AC Induction Motors	
409-02	AC Generators	
409-03	AC Induction Motor Theory	
409-04	Troubleshooting AC Induction Motors	
409-05	AC Induction Motor Maintenance	
409-06	Overhauling Induction Motors	
409-07	Generator System Heat Protection	
409-08	Generator Overhaul	
409-09	DC Motors and Generators	
409-10	Maintenance of Direct Current Motors and Generators	

Motor Control and Protection

411-01	Introduction to Motor Controls
411-02	Motor Protection and Faults
411-03	Motor Control Troubleshooting
411-04	Motor Control Centers

AC Drives

413-01	AC Drives Overview
Transf	ormers
415-01	Transformer Basics
415-02	Transformer Design and Components
415-03	Transformer Connections
415-04	Special Transformers

Batteries, Battery Chargers, and UPS

416-01	Battery Basics
416-02	Electrical Backup Systems
416-03	Uninterruptible Power Supplies (UPS)

Switchgear Maintenance

OWITCI	igear maintenance
417-01	Switchgear
417-02	Low Voltage Breakers
417-03	Medium and High Voltage Switchgear
417-04	General Switchgear Maintenance
417-05	Breaker Specific Maintenance
417-06	Circuit Breaker Time-Travel Characteristics and Testing

Electrical Protection and Grounding
418-01 Electrical Faults and Current Ratings
418-02 Overcurrent Protection, Fuses, and Breakers
418-03 Protection Relays
418-04 Generator, Transformer, and Motor Protection
418-05 Grounding and Bonding

Motor Operated Valves

WIOTOI	operated varves
419-01	MOV (Motor Operated Valve) Application and Construction
419-02	MOV Disassembly and Inspection, Part 1
419-03	MOV Disassembly and Inspection, Part 2
419-04	Limit Switch Adjustment

Wiring Installations

Wiring Installations
421-01 Wire and Cable Management
421-02 Terminating and Connecting Wires in a Control Panel
421-03 Making Connections in a Junction Box
421-04 Installing Conduit and Pulling Wire

Cable Splicing

Cable Opining
423-01 Introduction to Medium Voltage Cable
423-02 Medium Voltage Splices and Terminators

Troubleshooting Electrical Circuits

g =.com.ca.com.c	
425-01 Troubleshooting AC Circuits	
425-02 Troubleshooting DC Circuits	

Freeze Protection

427-01 Electrical Freeze Protection Components and Application

Distribution Operations Overview

301-37	Distribution System Components
301-38	Overhead and Underground Facilities
301-39	System Protection and Coordination
301-40	Distribution Operations
301-41	Safety for Distribution Systems
301-42	Distribution Control Center and Smart Devices

