

LOW VOLTAGE ARC FLASH/ELECTRICAL SAFETY TRAINING

January 22, 2018 - Richmond, BC
January 24, 2018 - Edmonton, AB
January 29, 2018 - Saskatoon, SK
February 1, 2018 - Winnipeg, MB
February 8, 2018 - Toronto, ON
May 1, 2018 - Richmond, BC
May 3, 2018 - Edmonton, AB
May 14, 2018 - Toronto, ON
May 17, 2018 - St. John's, NL
May 22, 2018 - Fredericton, NB
May 28, 2018 - Saskatoon, SK
May 30, 2018 - Winnipeg, MB

I-DAY COURSE
\$399



BOTH COURSES \$699

MV/HV ELECTRICAL SAFETY TRAINING

January 23, 2018 - Richmond, BC
January 25, 2018 - Edmonton, AB
January 30, 2018 - Saskatoon, SK
February 2, 2018 - Winnipeg, MB
February 9, 2018 - Toronto, ON
May 2, 2018 - Richmond, BC
May 4, 2018 - Edmonton, AB
May 15, 2018 - Toronto, ON
May 18, 2018 - St. John's, NL
May 23, 2018 - Fredericton, NB
May 29, 2018 - Saskatoon, SK
May 31, 2018 - Winnipeg, MB

I-DAY COURSE
\$399

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EARN CONTINUING
EDUCATION UNITS (CEUS)

COMPLETE COURSE DETAILS AT

LV - WWW.ELECTRICITYFORUM.COM/ELECTRICAL-TRAINING/ARC-FLASH-TRAINING

MV/HV - WWW.ELECTRICITYFORUM.COM/ELECTRICAL-TRAINING/HIGH-VOLTAGE-SAFETY-TRAINING

COMBINED - WWW.ELECTRICITYFORUM.COM/ELECTRICAL-TRAINING/LV-HV-ARC-FLASH-TRAINING

The LV & MV/HV Safety Training Courses Include:

- 100+Page Digital Electrical Safety Handbook (Value \$20)
- An Electricity Forum Coupon (Value \$100) to be used against any future 2018 Electricity Forum event (restrictions apply)
- 1.4 CEU credits issued by the Engineering Institute of Canada.
- Forum Presentations in Paper Format
- A FREE Magazine Subscription (Value \$50)
- NOTE: This course DOES NOT INCLUDE A CSA Z462-15* Standard. Copies of the CSA Z462-15* Standard must be purchased separately from Canadian Standards Association and brought to the course.

DAY ONE - LOW VOLTAGE

8:00am UNDERSTANDING ELECTRIC POWER SYSTEMS

- Time-Current Curves & Power System Studies
- Electrical Arc Characteristics

PREPARING TO WORK SAFELY

- Hazard Risk Analysis/ Task Assessment
- Assessment to Lockout or Work Energized
- Overview of Lockout Fundamentals
- Working Energized defined
- Preparing a Job Briefing and Planning Checklist
- How to plan for an Energized Electrical Work Permit
- Elements of an Energized Electrical Work Permit

ELECTRICAL HAZARDS

- Electrical Shock
- Effects of current on human beings
- Shock Protection Boundaries
- Approach to Energized electrical conductors or circuit parts operating at 50 Volts or more
- Arc Flash/ Arc Blast
- Elements and characteristics of an Arc Flash Event
- Arc Flash Hazard Analysis
- Arc Flash Protection Boundary for voltages between 50 and 600 Volts

ESTABLISHING AN ELECTRICALLY SAFE WORK CONDITION

The most effective way to prevent electrical injury is to completely remove the source of supply. This section will discuss the methods and process of achieving an electrically safe work condition. Including the following:

- Working On or Near De-energized Electrical conductors or Circuit Parts That Have Lockout Devices Applied
- Principles of Lockout Tagout Execution:
 - a. Employee Involvement
 - b. Training
 - c. Plan
 - d. Control of Energy
 - e. Identification
 - f. Voltage
 - g. Coordination

HAZARDOUS ELECTRICAL ENERGY CONTROL PROCEDURES

- a. Individual Qualified Employee Control Procedure
- b. Simple Lockout Tagout Procedure
- c. Complex Lockout Tagout Procedure
- d. Coordination
- e. Training and Retraining

...and more

DAY TWO - MEDIUM/HIGH VOLTAGE

8:00am RECOGNIZING ELECTRICAL SAFETY HAZARDS - WHERE DO THEY EXIST?

A detailed review of critical electrical safety hazards created by energized electrical equipment:

- Insulation
- Power Cables
- Power Transformers
- Instrument Transformers
- Dealing With Fault Currents
- Disconnect Switches
- Switchgear
- Circuit Breakers
- Fuses
- Electrical Relays
- Motor Starters
- AC/DC Motors
- Capacitors
- Emergency UPS Systems

RESOLVING ELECTRICAL SAFETY HAZARDS

Objective: Determine the controls used to protect workers from all energy sources created in the workplace. Benefits of a safe workplace include fewer injuries, lower worker compensation costs, reduced service interruptions, greater protection of capital investment, and increased uptime. This section will provide you with a detailed blueprint that maximizes electrical safety and all the benefits it generates.

- Hierarchy of Controls
- Management Control
- Legislation
- Electrical Code
- Purchasing Controls
- Engineering Controls
- Training
- Safety Documentation
- Rules
- Safe Work Practices
- Safe Work Procedures
- Codes of Practice
- Operating Procedures
- Permits & Clearances
- Switching Procedures
- Physical Equipment
- Personal Protective Equipment
- Safety Equipment
- Signs and Barriers
- Equipment Protection
- Interlock
- Grounding
- Field Control
- Inspections
- Job Planning
- Pre-job Meeting
- Hazard Identification
- Hazard Reporting
- Work Methods
- Limits of Approach
- Switching Practices

...and more

FOR COMPLETE PROGRAM DETAILS: WWW.ELECTRICITYFORUM.COM/ELECTRICAL-TRAINING/LV-HV-ARC-FLASH-TRAINING

WAYS TO REGISTER



**1 (855) 824-6131
(905) 686-1040**



ON-LINE:
www.electricityforum.com/electrical-training/lv-hv-arc-flash-training

The fee includes Course presentation materials, refreshments, **Lunch is Included with this course.**

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The registration fee to attend the 2-Day Low Voltage and MV/HV Electrical Safety Training Workshop is \$699.00 + Tax.

Register and prepay 14 days before forum date and receive an early bird discount of \$50.00

SPECIAL PROMOTION: Register 3 delegates at the full price of \$699 each, and get a 4th registration FREE!

* Note: The Electricity Forum is an independent provider of electrical safety training and is a Corporate Supporter of the CSA. All trade-marks and copyright associated with the [CSA Z462-15 Arc Flash Standard] are the intellectual property of the Canadian Standards Association and the Electricity Forum claims no ownership of rights thereto.

CANCELLATION AND REFUND POLICY Registration fees are refundable only upon receipt of written notification 10 days prior to the conference date, less a 10 per cent service charge. Substitution of participants is permissible. The Electricity Forum reserves the right to cancel any conference it deems necessary and will, in such event, make a full refund of the registration fees.

WHEN & WHERE

Richmond, BC
January 22-23, 2018
May 1-2, 2018
Holiday Inn Vancouver Airport
10720 Cambie Road
Tel: 604-821-1818

Saskatoon, SK
January 29-30, 2018
May 28-29, 2018
Sandman Airport Hotel
310 Circle Drive
Tel: 306-477-4844

Toronto, ON
February 8-9, 2018
May 14-15, 2018
Hampton Inn and Suites
3279 Caroga Drive, Mississauga, ON
Tel: 905-671-4730

Winnipeg, MB
February 1-2, 2018
May 30-31, 2018
Sandman Hotel & Suites
1750 Sargent Ave.
Tel: 204-775-7263

Edmonton, AB
January 24-25, 2018
May 3-4, 2018
Sawridge Inn Edmonton South
4235 Gateway Blvd NW
Tel: 780-438-1222

St. John's, NL
May 17-18, 2018
Comfort Inn St. John's Airport
106 Airport Road
Tel: 709-726-3408

Fredericton, NB
May 22-23, 2018
Ramada Hotel Fredericton
480 Riverside Drive
Tel: 1-800-596-4656