

CANADIAN FIRE ALARM SYSTEMS - DESIGN, INSTALLATION, TESTING AND MAINTENANCE



Feb. 5-6, 2019

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CANADIAN FIRE ALARM SYSTEMS - DESIGN, INSTALLATION, TESTING AND MAINTENANCE

Sign up today for Canada's leading Canadian Fire Alarm and Life Safety Systems training course. Our course goes well beyond the recitation of Codes and Standards. Complete with 8 Interactive Workshops on fire alarm protection systems that examine the purpose and specific application of the different codes and standards that regulate the industry. Avoid installation errors, failed inspections and false alarms! This interactive course maximizes its impact through dynamic curriculum and a learning environment that encourages discussions with other course attendees. Workshops are taught by a recognized and experienced fire protection professional who understands today's changing safety dynamics.

You'll bring your knowledge up-to-code with in-depth instruction that focuses on the correct design, installation, testing, and use of fire alarm and signaling systems.

Technical workshops and exercises are based on the types of challenges you encounter in the field, so you'll leave with a wealth of practical tips, insights, and solutions you can immediately implement back on the job. This course will review the types of fire alarm systems, their selection and their applications for structures and processes. It will also cover special systems designed to prevent costly, life-threatening industrial fires and/or explosions.

NOTE: Electricity Forums Training Institute's (EFTI) Fire Alarm Training Course qualifies for four (4) hours of CFAA Technician Renewal Credits (Category 5 Course), as per the CFAA website at <http://www.cfaa.ca/cecreditform.aspx>). To earn these credits, you must submit the EFTI Certificate of Completion, along with the

course outline and the training schedule to the CFAA.

Upon completion, students will understand:

- Current Industry Standards
- Code Compliance
- Risk Management
- Design, Budgeting, Installation and Verification
- Inspection, Maintenance and Troubleshooting
- Detection
- Alarm Signaling and Monitoring
- Suppression
- Evacuation
- Emergency Lighting
- Emergency Backup and Generators

Students will also be able to:

- Navigate through the relevant codes to find required compliance
- Review key changes in industry standards and codes new to fire alarm systems
- Identify the key elements of all phases of a fire alarm system's life
- Identify the stakeholders at different stages of a fire alarm system's life
- Recognize the function of major fire alarm system components
- Locate and apply key fire detection requirements for emergency control functions such as door control and elevator recall, security access/egress and offsite monitoring
- Calculate the required spacing and determine the correct placement of fire detection and signalling devices

AGENDA - DAY 1

CANADIAN BUILDING CODE

- Fire alarm minimum requirements classification of buildings
- Requirements for high rise buildings

GOVERNING DOCUMENTS

- CODES AND STANDARDS
- CAN/ULC-S524-06 STANDARD
- CEC

DESIGN DOCUMENTS

- Plans and specifications
- Riser drawing
- Criteria for system acceptability

WORKSHOP 1: ELEMENTS OF DESIGN AND INSTALLATION AFFECTING LIFE SAFETY SYSTEMS

- CAN/ULC-S524, CEC, & NBC Building Code Requirements
- "Good Engineering Practice"

- Layout
- Manual Initiating Devices
- Automatic Initiating Devices
- Supervision
- Addressable versus Conventional
- Zoning & Annunciation

AUTOMATIC INITIATING DEVICES

- Types
- Smoke
- Beam
- Heat
- Air Sampling
- Fire Signature
- Heat
- Installation
- Environmental Considerations

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WORKSHOP 2: SIGNALLING DEVICE INSTALLATION

- Audible & Visible Signal Appliances
- Sound Principals
- Audibility
- Intelligibility
- Candela
- Specific Applications & Design Criteria
- Mass Notification
- Building Owners/Management Responsibilities

WORKSHOP 3: CONTROL PANELS

- Supervision
- Signalling Stages
- Class A Circuits
- Class B Circuits
- Hybrid Circuits
- Data Communication Loops
- Power Buss Risers

- Conventional Systems
- Addressable Systems
- Hybrid Systems
- Zoning
- Building Systems Integration – Elevator
- Recall, Dampers, Fan & Smoke Control
- Power Supply Requirements (Primary & Emergency) – Batteries, UPS's, & Generators

WORKSHOP 4: OPEN SESSION AND GROUP DISCUSSION

- New Installations
- Upgrades
- Retrofits
- Replacement of Components
- Replacement of Control Equipment
- Replacement of Field Devices

AGENDA - DAY 2

NETWORKED SYSTEMS

- Transponders
- Networking Methods
- Large Scale Networks
- Style "A"
- Style "B"
- Style "C"
- Isolators

SPRINKLERS

- Alarm Devices
- Supervisory Devices
- Zoning

COMMAND AND CONTROL FACILITY

- Requirements
- Remote Monitoring Requirements
- CAN/ULC-S561
- Building Code Requirements

WORKSHOP 5: SYSTEM TROUBLESHOOTING

- Ground Faults
- Power Supply Faults
- Supervision Faults
- End – of – Line Devices

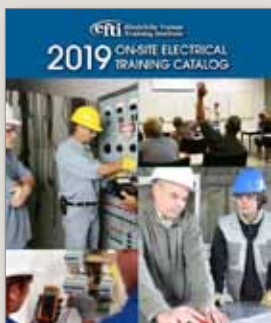
WORKSHOP 6: VERIFICATION & COMMISSIONING, PERIODIC TESTING REQUIREMENTS AND THE FIRE CODE

- Building Code Requirements
- CAN/ULC-S537 Appendix "C"
- CAN/ULC-S1001 Report
- Fire Code Requirements
- CAN/ULC-S536 Appendix "E"
- Daily Testing
- Monthly Testing
- Documentation & Forms

WORKSHOP 7: DEVELOPING A PREVENTIVE MAINTENANCE PROGRAM

- Implementing a Fire Safety Plan

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WHEN & WHERE**Saskatoon, SK - February 5-6, 2019**

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Winnipeg, MB - February 7-8, 2019

Sandman Hotel & Suites Winnipeg Airport
1750 Sargent Ave.
Tel: 204-775-7263

Toronto, ON - February 11-12, 2019

Toronto Airport Hotel
3279 Caroga Dr., Mississauga
Tel: 905-671-4730

Edmonton, AB - February 19-20, 2019

Sawridge Inn Edmonton South
4235 Gateway Blvd NW
Tel: 780-438-1222

Calgary, AB - February 21-22, 2019

Holiday Inn Calgary Airport
1250 McKinnon Drive
Tel: 403-230-1999

Richmond, BC - February 25-26, 2019

Sandman Signature Vancouver Hotel & Resort
10251 Edwards Drive
Tel: 604-278-9611

ATTENDEE INFORMATION

To receive registration fee discounts, you must
REGISTER AND PREPAY prior to the course date.

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The registration fee to attend the two-day Canadian Fire Alarm Systems course is \$799.00 + GST/HST. The fee includes Course presentation materials, CEU Credit, refreshments, Lunch is Included.

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

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.

COURSE INSTRUCTOR**FRANK KURZ**

Frank Kurz is Executive Director of the Fire Protection Technicians Network. Frank is Chair of the ULC Working Groups responsible for developing both the Verification and Inspection Standards for Canada and is a committee member of the following standards: CAN/ULC-S561, CAN/ULC-S524, and CAN/ULC-S1001.