

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



May 30-31, 2016	Richmond, BC
June 1-2, 2016	Edmonton, AB
June 16-17, 2016	Winnipeg, MB
June 20-21, 2016	Toronto, ON

INCLUDES 8 ALL NEW INTERACTIVE WORKSHOPS!!

BONUS FEATURES

- **\$100 Coupon** Toward any Future 2016/2017 Electricity Forum Courses
- 1.4 Continuing Education Unit (CEU) Credits
- **FREE** Intelligent Power Today Magazine Subscription
- Forum Presentations in Paper Format
- Refreshments and lunch

2-DAY COURSE

\$799

RECOGNIZED BY



EARN CONTINUING
EDUCATION UNITS (CEUS)

SPONSORED BY



complete course details:

www.electricityforum.com/forums/fire-alarm-systems.html

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.

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

complete course details:

www.electricityforum.com/forums/fire-alarm-systems.html

WORKSHOP 2: SIGNALLING DEVICE INSTALLATION

- Audible & Visible Signal Appliances
- Sound Principles
- 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

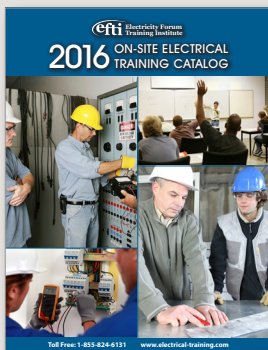
WORKSHOP 6: VERIFICATION & COMMISSIONING, PERIODIC TESTING REQUIREMENTS AND THE FIRE CODE

- 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

"Our motivation is your education."



Download Our FREE On-Site Electrical Training Catalog TODAY!

THE
ELECTRICITY
FORUM
TRAINING
INSTITUTE

ON-SITE TRAINING BENEFITS:

Affordable and Cost Effective
Course Customization
Flexibility of Schedule
Convenience for Employees
CEUs/PDHs

www.electricityforum.com/catalog



1 (855) 824-6131



(905) 686-1078



ON-LINE:

[www.electricityforum.com/forums/
fire-alarm-systems.html](http://www.electricityforum.com/forums/fire-alarm-systems.html)



MAIL:

The Electricity Forum
1885 Clements Rd., Unit 218
Pickering, ON L1W 3V4



**REGISTER 3 DELEGATES
AT FULL PRICE
AND GET THE 4th REGISTRATION FREE!**

WHEN & WHERE

Richmond, BC - May 30-31, 2016

Holiday Inn Vancouver Airport
10720 Cambie Road
Tel: 604-821-1818

Edmonton, AB - June 1-2, 2016

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

Winnipeg, MB - June 16-17, 2016

Hampton Inn Winnipeg Airport
730 Berry Street
Tel: 204-772-3000

Toronto, ON - June 20-21, 2016

Hampton Inn and Suites Toronto Airport Hotel
3279 Caroga Drive
Tel: 905-671-4730

ATTENDEE INFORMATION

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

NAME _____

TITLE _____

COMPANY _____

ADDRESS _____

CITY _____

PROVINCE _____

POSTAL CODE _____

E-MAIL _____

TEL () _____

FAX () _____

METHOD OF PAYMENT

☐ **Bill My Credit Card**

☐ **AMEX** ☐ **VISA** ☐ **MasterCard**

Card # _____

Exp. Date _____

Signature _____

Card Holders Name _____

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.

INTERESTED IN ON-SITE FIRE ALARM SYSTEM TRAINING?

Cost Effective On-Site Electrical Training

Save the cost of travel and hotels AND save on our regular public enrollment registration fees. For more information, contact Randy Hurst, President, The Electricity Forum 1-855-824-6131. You can write to randy@electricityforum.com or you can go to our on-site electrical training quotation page and ask for a FREE quotation: www.electricityforum.com/on-site-training-feedback.htm