



Content
Community
Connection

United States
The Electricity Forum Inc.
742 Pre Emption Road
Geneva, NY 14456
Tel 289-387-1025

Canada
The Electricity Forum
1885 Clements Rd, Unit 218
Pickering, ON L1W3V4
Tel 905-686-1040
Fax 905-686-1078
Toll Free 855-824-6131

Fire Alarm Training Online - Life Safety Equipment & Systems - Design, Installation, Inspection, Testing, Service & Maintenance

Contact us Today for a FREE quotation to deliver this course at your company's location.

<https://www.electricityforum.com/onsite-training-rfq>

COURSE DATES AND TIMES

July 9-10 , 2020

10:00 am - 4:30 pm ET

September 16-17 , 2020

10:00 am - 4:30 pm ET

October 15-16 , 2020

10:00 am - 4:30 pm ET

November 12-13 , 2020

10:00 am - 4:30 pm ET

December 14-15 , 2020

10:00 am - 4:30 pm ET

Fire Alarm Training - Our 12-Hour Live Online instructor-led course goes well beyond the recitation of Codes and Standards. We examine the purpose and specific application of the different codes and standards that regulate the industry. Avoid installation errors, failed inspections and false alarms!

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.

Our Fire Alarm Training 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. Our fire alarm class will provide the latest information on fire alarm panels, wireless smoke detectors, integration with security systems alarms, fire alarm wiring, fire panels, heat detectors, fire bells, fire protection systems, and fire alarm annunciators, and much, much more.

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 systems and signaling systems and help

your company pass fire inspections more effectively. This course is suitable for fire alarm technicians.

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.

Why Instructor-Led Training is Best

Instructor-led training offers you a better experience than online or webinar training because we'll challenge you with problem-solving exercises as you work through learning modules and actively participate in group discussions. We'll show you how to do it RIGHT!

Do you know the most common mistakes seen in the field? Do you know how to avoid making them?

Many installers aren't aware that there are requirements for mounting heights for devices and for their interconnections that actually supersede the manufacturer's instructions. Don't have your installation rejected by the Verifier or the local jurisdictional authority!

What is the correct method for choosing an automatic fire detector? Why would you not use a smoke detector in a given situation? Do you know which detector is correct for your application? Multi-criteria, or single technology? Yes, it matters! Find out why.

Do you ponder the drawings you're given and wonder how to correctly wire the system? Save yourself the embarrassment of having to go back and fix it after your installation has failed. It's YOUR job to know proper installation and design techniques – mistakes are costly both in terms of time and money. There is nothing worse than having someone come along and tell you that you've just spent 4 days doing it wrong. Know what YOU are doing and help mentor others. Take this class, ground yourself with the knowledge and skills you need to positively contribute to your project's success. Become your community's Life Safety Systems Go-To expert.

Do you feel competent in speaking to the installer/engineer/designer/AHJ about your project when there's something in the plans and specs that just doesn't seem right or may actually be missing? While it's not exactly rocket-science, our course will help you identify the elements your project requires and will help you leverage new technologies and concepts to succeed. Be confident, assertive, and let your employer see how you saved the day! In these tight-money times, the last thing you want is to be responsible for costly delays, or, worse . . . losing a job through your incompetence.

At the end of this intensive two-day course, you'll be able to directly use the knowledge and skills you'll have acquired. This course will push you to a new level of confidence you will feel on a DAILY basis.

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

WHO SHOULD ATTEND

Fire System and Electrical installation, testing and maintenance personnel, electrical contractors, facility managers, physical plant directors, fire and building inspectors in municipal, provincial and federal governments, service personnel, owners, plant managers and/or property managers for housing authorities, industrial, commercial and institutional properties.

STUDENTS RECEIVE

- FREE 100-Page Digital Digital Handbook (Value \$20)
- \$100 Coupon Toward Any Future Electricity Forum Event (Restrictions Apply)
- 1.4 Continuing Education Unit (CEU) Credits
- FREE Magazine Subscription (Value \$25.00)
- Course Materials In Paper Format

COURSE OUTLINE

Fire Alarm Training Online Course - Design, Installation, Testing and Maintenance

Course Instructor:

Frank Kurz, 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.

DAY ONE

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

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

DAY TWO

Review of Day One Workshops & Questions

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

COURSE REVIEW AND QUESTIONS

COURSE TIMETABLE

Both days:

Start: 8:00 a.m.

Coffee Break: 10:00 a.m.

Lunch: 12:00 noon

Restart: 1:15 p.m.

Finish: 4:30 p.m.

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