



CANADIAN FIRE ALARM TECHNOLOGY PROGRAM

CURRICULUM

5 MODULES, REQUIRED FOR REGISTRATION AS A FIRE ALARM TECHNICIAN

CURRENT SCHEDULES

- [Spring 2017 Classroom Schedule](#)
- [2016 Fall Winter Spring Corporate Webinar Schedule \(not open to the public\)](#)

MODULE 1 | INTRODUCTION TO THE FIRE DETECTION & ALARM INDUSTRY

Discusses the establishment of the fire alarm industry from its grass roots to current day legalities enforced by various fire marshal offices across Canada for prevention, detection and extinguishment of fire, including industry ethics and safety measures. Covers fire alarms in building construction, the application of codes and standards, fire sciences, fire behaviour and proven methodologies for testing and troubleshooting. Also covered are the theories of application surrounding input, output and ancillary devices to fire alarm systems.

Text: Canadian Fire Alarm Association: Fire Alarm Systems, A Reference Guide, 2010 Edition. (CFAA, 2010)

MODULE 2 | VERBAL AND WRITTEN COMMUNICATION

Teaches practical techniques for understanding and working with various forms of verbal and written business communication including letters, memoranda, summaries, instructions, reports and verbal presentations. Covers planning and writing in an effective, professional manner, editing, and checking spelling, grammar and punctuation. Written and oral assignments help the student improve professionalism and effectiveness in communications.

Text: Northey, Margot and McKibbin, Joan, Impact!: A Guide to Communication (Pearson Education Canada, 2012)

MODULE 3 | **BASIC ELECTRICITY**

Knowledge of electrical theory is essential to understanding the operation of fire alarm systems today. This course is designed to provide the student with basic electrical theory for the fire alarm industry. Basic electrical structure will be discussed, from the molecular level of electrical development to AC and DC sine waves, battery dynamics, transformers, capacitors, circuitry, electromagnetic fields, inductance, electrical safety, and interpreting wiring schematics. Students taking this course will have a strong grounding in basic electrical theory for wiring fire alarm devices and components, and will be able to calculate electrical values for circuitry.

Text: Canadian Fire Alarm Association: Basic Electrical Theory for the Fire Alarm Technician, 2003 Edition. (CFAA, 2003)

MODULE 4 | **LIFE SAFETY SYSTEMS ELECTRONICS**

With modern day fire protection and the advancements in the fire industry, fire alarm systems have evolved from being a basic input-output system to a more advanced intelligent life safety system that is capable of making accurate decisions based on information that is fed to it. This course covers the critical components that create both intelligent and non-intelligent fire alarm systems. It covers electronic devices, their mechanics, construction, and operation and influence over voltage, current and resistance. It also covers programmable logic used by fire alarm systems to control building ancillaries and voice communication.

Textbook: Canadian Fire Alarm Association: Life Safety System Electronics. (CFAA, 2012)

MODULE 5 | **FIRE ALARM SYSTEMS**

Covers design, installation, maintenance and testing considerations of fire alarm systems, their devices and components, and the national and provincial codes and standards that govern the fire alarm industry. Covers procedures for system verification and periodic inspection, all in accordance with U.L.C. requirements as outlined in CAN/ULC-S537 and CAN/ULC-S536 standards.

Text: Canadian Fire Alarm Association: Fire Alarm Systems, A Reference Guide, 2010 Edition. (CFAA, 2010)

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