



## Emergency Management Certificate Program

Centennial College has emerged as a recognized leader in applied emergency preparedness research and education. Our major areas of accomplishment:

**High fidelity disaster simulations.** Centennial has moved to the forefront in staging high fidelity disaster simulation action studies, bringing together first responders from across the Greater Toronto Area to evaluate emergency response plans, develop a higher level of teamwork across various organizations and evaluate new communication and information management technologies in crisis environments.

**Inter-professional education research.** We are the first college to be awarded research funding from Health Canada to develop and evaluate courses designed to increase inter-professional collaboration in emergency response situations.

**Innovative simulation tools.** Within our applied research area, Centennial is developing sophisticated interactive tabletop simulation software tools to support disaster response training near to the classroom, helping to meet the critical but hard to achieve need for hands-on practice.

**Strategic partnerships.** Centennial is active in the development of partnerships which brings together senior emergency management experts with the goal of improving all aspects of coordinated emergency response planning.

Participants in this program benefit from Centennial's considerable background and leading-edge expertise in this area - first hand practical knowledge which makes all the difference.

### For information and registration information contact

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# Emergency Management Certificate

Four month executive program



This is not an acceptable response



Seven weekends

Immersive

Case-based

Hands-on

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## Emergency Management Certificate Program

Floods, fires, hurricanes. Explosions. Power failures. Virus outbreaks. Is your organization ready to respond to these threats? What role will you play?

The discipline of Emergency Management is emerging in global importance, stemming from a heightened public awareness of disasters and the desire to control or lessen their impacts.

Our program is designed to answer the growing demand for trained professionals. Developed in consultation with leaders from industry and government, this certificate will position you to work in one of the many career areas within emergency management.

Our Emergency Management Certificate Program provides you with a unique advantage of combining theory and practice and prepares you to: Analyze hazards and assess risks; develop and practice plans for emergency response and recovery; design an emergency operations centre layout and build an understanding of mitigation and prevention strategies.

### Seven weekends Immersive Case-based Hands-on

#### A format which makes sense

Complete the entire program in four months. Classroom seminar time is Friday evening and all day Saturday every second week for seven weeks. This immersive case-based format recognizes that you have a busy work life as well as a need to contribute to your organization as an expert in this critical discipline. Class size is kept small to create optimal hands-on learning conditions, resulting in better takeaway value. At some point during the four months, you will be involved with a major emergency exercise involving Greater Toronto Area emergency response organizations.



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## Program outline

### Module 1 Introduction to Emergency Management

Introduction to the basic concepts of Emergency Management (EM). You will learn the attributes of the five phases of EM: mitigation, prevention, preparedness, response and recovery, and the principles of risk assessment, emergency planning and communication. This knowledge will provide a solid foundation for further study of emergency management.

### Module 2 Emergency and Continuity of Operations Planning

Examine the core components of emergency preparedness from both the public and private sector viewpoints. Develop an appreciation for the various roles and responsibilities of all levels of government and the private sector in building plans, as well as the actions to be taken following an incident. Examine how project management principles are applied to emergency preparedness, and gain an understanding of the intricacies in designing and setting up an Emergency Operations Centre that becomes the heart of response and recovery efforts.

### Module 3 Hazard Identification and Risk Assessment

Develop the knowledge and skills to perform hazard identification and risk assessments. You will be able to identify and evaluate critical and essential facilities, equipment and systems from both a public safety and a business continuity viewpoint, a key step in determining planning requirements.

### Module 4 Incident Management Systems and Supporting Technologies

Provides an overview of operational, communication and analytical tools and applications used in emergency management to assess situations, coordinate resources and manage information. You will understand the value of an Incident Management System for site and Emergency Operations Centre management. Includes an introduction to Geographic Information System technology, data structures and analytical techniques that are being incorporated into a wide range of management and decision-making operations.

### Module 5 Emergency Exercise Design Applications

Examine how exercise design supports training and overall EOC effectiveness. Various types of exercises will be examined along with a methodology for plan validation. You will have the opportunity to develop simple and intermediate emergency exercises and participate in more complex ones. You will practice various roles and take part in many activities as the exercise developer, monitor, leader and/or general participant.

### Module 6 Emergency Operations Centre Design and Procedures

The EOC is a central facility, which serves as an established and recognized point of authority responsible for the direction, control, co-ordination and support required during an emergency. In this course you will develop EOC procedures and design an emergency operations centre layout with considerations of operational guidelines and best practices. Participants will evaluate the effectiveness of different formats and designs. Interpersonal and group dynamics and leadership qualities will be examined as to their impact on both group and personal effectiveness in operating and managing an EOC.