

**ADVANCED CYBER SECURITY FOR MANAGERS (ACSM)**

<b>DATES</b>	<b>LOCATION</b>	<b>COST</b>
May 28 – 29, 2020	<b>Ottawa, Ontario</b>	2 Days
July 30 – 31, 2020	Metcalfe Hotel (123 Metcalfe Street)	\$2,500 + HST
September 28 – 29, 2020	or	
October 29 – 30, 2020	Lord Elgin Hotel (100 Elgin Street)	
December 14 – 15, 2020		

**COURSE SUMMARY** *(This course is one of the essential courses required for **certification and designation as a Security and Resilience Professional/Manager** under the Infrastructure Resilience Research Group [IRRG], Office of the Dean, Faculty of Engineering and Design, Carleton University.)*

Every aspect of the workplace depends on IT and ICS. The increasing dependence on digitization also introduces vulnerabilities. This course is designed to bring IT, ICS, control room managers, security professionals, and managers and generalists who have to work together to address the impacts of cyber attacks on an organization. During a cyber attack, it is imperative to work as a team and not in silos. Having the knowledge, understanding and a common vocabulary to communicate during a cyber incident is also a critical requirement.

The course is divided into the following three (3) modules:

**Module 1: Roles and Responsibilities**

This part will discuss the roles and responsibilities of IT, ICS, cyber security experts, security professionals, managers, analysts, and other reporting requirements to senior managers and executives.

**Module 2: Threat Landscape and Actionable Response**

The instructor will discuss recent cyber attacks, their characteristics, and attackers' tradecrafts and different assessment methodologies.

**Module 3: Scenario Exercises**

Different scenarios and case studies will be used to demonstrate:

- Specific cyber countermeasures;
- Effective measures to prevent attacks;
- How attackers leverage man-in-the-middle tools to intercept seemingly secure networks; and,
- Network devices (firewalls, intrusion detection system to increase intelligence value of logs and alerts during investigation.

# INFRASTRUCTURE RESILIENCE RESEARCH GROUP

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At the end of the course, you will:

- Have a better understanding of the roles and responsibilities of all key officials involved in addressing cyber threats to an organization;
- Know and understand common terminologies;
- Understand cyber security concepts and processes to communicate effectively to help breakdown silos in the workplace; and
- Gain a better understanding of cyberattack defense methodologies and the evolving complexities of attacks.

*Upon the successful completion of this training, participants will be issued an IRRG certificate, indicating that they have gained the acquired the knowledge and understanding to be able to communicate with peers, senior managers and executives.*

Who should attend:

**Professionals, Manager, and Generalists**, who have taken the Fundamentals of Cyber Security (FOCS) training.

**IT, ICS, and Control Room Supervisors** who want to update their knowledge of the ongoing cyber threats.

**COURSE INSTRUCTOR:**

- Antoine Lemay, Ph.D., CISSP, GSEC, GCIH  
Chief Training Officer, Cyber Defence Corporation

*March 2020*