

---

## CRITICAL INFRASTRUCTURE SECURITY AND RESILIENCE: A MULTI-DISCIPLINARY, MULTI-STAKEHOLDER APPROACH

---

**COURSE SUMMARY** *(This course is one of the essential courses required for Professional Security Certification under the Infrastructure Resilience Research Group, Office of the Dean, Faculty of Engineering and Design, Carleton University)*

Canada's critical national infrastructure systems including transportation, energy and utilities, telecommunication, finance and banking are essential to the country's economic and social well-being and national security. These infrastructures are increasingly interconnected and interdependent, making them more vulnerable to disruption from all-hazards threats.

Effective security and resilience requires an understanding and appreciation of the roles and responsibilities of key stakeholders, the building and sharing of knowledge and skills to ensure that expertise is in place to manage risks, mitigate threats, prevent damage, and ensure resilience of stakeholder assets and networks.

The objectives of this course are to:

- provide and promote interdisciplinary knowledge development in relation to national critical infrastructure in an all-hazards environment
- put into context the need for a multi-stakeholder approach to security and resilience
- build the capacity of public and private sector security and infrastructure resilience practitioners to address the constantly evolving physical and cyber threats to infrastructure.

**Upon completion of this course, participants will be able to:**

- Understand **legislative, regulatory and policy** commitments
- Establish strategies for developing, implementing and using **standards and guidelines**
- Develop skills in the **use of intelligence** for critical infrastructure management

- Enhance methodologies for **leveraging unique skills** and expertise
- Examine Canadian-U.S. **cross-border issues** management
- **Brief** / educate senior management and executives to ensure security and resilience is addressed as part of business planning
- Build **risk management** knowledge – identification, analysis, evaluation and mitigation process
- **Develop strategic road mapping** – vision, framework, policies, goals and achieving milestones

| <b>DATE(S)</b>          | <b>LOCATION</b> | <b>COST</b>            |
|-------------------------|-----------------|------------------------|
| September 25 – 26, 2018 | TBD, Ottawa, ON | 2-Day<br>\$2,150 + HST |
| November 26 – 27, 2018  | TBD, Ottawa, ON | 2-Day<br>\$2,150 + HST |

**COURSE INSTRUCTOR:**

- Dr. Felix Kwamena, Director/Adjunct Professor, IRRG, Carleton University