

# Catalyst Cyber Range

Practice. Plan. Protect.

Toronto  
Metropolitan  
University



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## Why use the Catalyst Cyber Range?

The Catalyst Cyber Range gives organizations access to best-in-class cybersecurity training, using cutting-edge modules and ultra-realistic simulated environments. Through Cyber Range exercises, your team gets access to hands-on learning opportunities before an attack arises.

## Cyberattacks threaten every organization — stop them in their tracks.



How you respond in the critical first moments of a cyberattack will determine its impact on your organization. Cyber Range training can help you learn how to defend your organization and mitigate losses in the event of a security breach.

In collaboration with Nexova and powered by their technology, our Cyber Range simulation platform is designed to facilitate experiential learning. Our instructors guide your team through immersive, customized training to help build upon existing strengths and practice your skills.



## Flexible training, tailored to your needs.

We offer on-site and virtual opportunities to organizations across Canada. Through a combination of workshops, interactive tabletop exercises and computer-based technical scenarios, your team learns to defend against and respond to emerging cybersecurity threats in a safe environment.

### Our services offered are:

- Interactive & experiential — minds-on and hands-on training that is engaging and practical.
- Customizable — we tailor our offerings to your specific organizational needs and sector.
- Inclusive — we offer targeted training for every level of employee.

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Reach out to our team at  
[catalyst.corporate@torontomu.ca](mailto:catalyst.corporate@torontomu.ca)



“[The program] is practical, but very holistic in nature. It is very helpful to understand what’s going on during a cyber attack from the attacker's perspective, the victim's perspective and from the 10 different people that might be working during the breach.”

**Ian McWilliam**

*Trainer and Senior Cybersecurity Advisor*

## Learn how to respond to attacks with ultra-realistic training environments.

Teams have the opportunity to experience cyberattacks from multiple angles with realistic emulations of an organization's network. We build interactive emulations of enterprise networks, systems, tools and applications using the **Cyber Integration, Test and Evaluation Framework (CITEF™)**.

- Train with the newest technologies in the cybersecurity landscape.
- Validate your Incident Response Playbook.
- Enhance or develop your team's skills.
- Foster collaboration and cooperation across your organization.
- Detect and mitigate cyber threats using proven methodologies.



# Sample scenarios you'll encounter in the Cyber Range

## **Red Teaming (PenTesting):**

Engage your workforce in a multi-tiered cyberattack simulation to detect vulnerabilities and evaluate risks within your organization's network.

## **Blue Teaming:**

Learn how a social engineering attack can take place and escalate into a full-blown ransomware incident. Protect your critical data infrastructure against cyber threats, master cyberattack patterns and develop strategies to mitigate cyberattack risks.

## **Incident Response & Ransomware:**

In these scenarios you will act as a hacker breaking into multiple servers and/or domain controllers. You will also have the option of performing an advanced privilege escalation attack.

## **Cybersecurity Essentials:**

Participants will go through a scenario from a hacker's point of view by exploiting a system and taking control. They will also learn network analysis and Wireshark skills.

## **Advanced Ransomware & Social Engineering:**

Participants will be taken through an attack that escalates through an enterprise network and act as the blue team to identify, respond and recover from it.

## **Identification and Containment:**

Experience a cyber event from the viewpoint of the attacker, SOC Analyst and cybercrime investigators. Participants use multiple attack methods to identify the threats and contain them using security defensive tools.

# Cybersecurity Training

Empower your IT support teams, project managers and other non-technical teams with foundational cybersecurity knowledge and skills to help build a culture of digital security and resilience across all levels of your organization.

## What we offer

Our cutting-edge Cyber Range technology is accessible to public and private organizations of all kinds, catering to different audiences with varying skill levels.

We'll work with you to determine how the Cyber Range can be a tool for your organization.

### Course-integrated Training.

For educational institutions or other training contexts, scenarios can be adjusted or custom-built to enhance course work through lab work, an assignment or as part of an exam. Assessments can be used to validate learners' completion of specific skills or tasks.

### Additional Tabletop Training Exercises.

While the security team tests their technical skills in incident response via the Cyber Range, leadership and crisis management teams exercise key decision-making skills with a designated war room exercise.

### Security Validation.

Use the Cyber Range to demonstrate the vulnerability of your system to different attacks or breaches. Use this powerful experiential and visual tool to strengthen your business case for cyber.



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## Rogers Cybersecure Catalyst

Toronto Metropolitan University's national centre for training, innovation and collaboration in cybersecurity.

Together with our partners and collaborators, we work to realize a vision of healthy democracies and thriving societies, powered by secure digital technologies.

Visit [cybersecurecatalyst.ca](https://cybersecurecatalyst.ca) to learn more about our programs and services.

## Contact us

Discover how the Catalyst Cyber Range can support, and enhance, your organization's cybersecurity posture:  
[catalyst.corporate@torontomu.ca](mailto:catalyst.corporate@torontomu.ca)

Learn more about the Catalyst Cyber Range:  
[cybersecurecatalyst.ca/corporate-training/](https://cybersecurecatalyst.ca/corporate-training/)



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