Unitar Online Catalogue

CIFAL York - Drone Pilot Course; Multispectral Mapping with Drones; Search and Rescue with Drones

People

Date limite: 1 Jan 2025

Type:	Course
Emplacement:	Toronto, Canada
Date:	1 jan 2025 to 31 déc 2025
Durée:	80 Hours
Zone du programme:	Decentralize Cooperation Programme
Site internet:	https://www.yorku.ca/cifal/ai-feminism/
Prix:	0.00 $US
Personne de référence de l'évenement:	cifalom@yorku.ca
Partenariat:	CIFAL York, , York University, , ADERSIM

CONTEXTE

This ongoing drone training programme responds to the increasing demand for certified drone pilots and the use of unmanned aerial systems (UAS) in fields such as emergency response, environmental monitoring, infrastructure inspection and advanced data collection. The courses are part of CIFAL York’s mandate to

strengthen technical capacities in emerging technologies supporting the SDGs.

OBJECTIFS DU COURS

- Strengthen participants’ competencies in safe and effective drone operations.
- Provide hands-on skills for multispectral mapping and data analysis.
- Equip learners with practical search-and-rescue drone techniques relevant to emergency preparedness.
- Promote responsible, ethical and sustainable use of drone technologies.

OBJECTIFS D'APPRENTISSAGE

- Participants will be able to:
- Explain regulatory and safety requirements for UAS operation in Canada.
- Conduct drone flights following standard operational procedures.
- Capture, process and analyse multispectral imagery.
- Apply drone-based techniques in search-and-rescue scenarios.
- Integrate drone data into decision-making processes.

CONTENU ET STRUCTURE

- Introduction to drone technology and regulations
- Flight safety protocols and pre-flight procedures
- Practical piloting sessions
- Multispectral imaging and mapping workflows
- Search and rescue simulations
- Data processing and reporting

MÉTHODOLOGIE

- Instructor-led sessions
- Hands-on drone flight practice
- Simulated emergency response scenarios
- Group work and supervised field exercises

AUDIENCE CIBLE

Professionals, students, emergency responders, environmental technicians, researchers, and individuals seeking UAV certification and technical skills.