Unitar Online Catalogue

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

People

Plazo: 1 Jan 2025

Tipo:	Course
Ubicación:	Toronto, Canada
Fecha:	1 Ene 2025 to 31 Dic 2025
Duración:	80 Hours
Área del programa:	Decentralize Cooperation Programme
Sitio web:	https://www.yorku.ca/cifal/ai-feminism/
Precio:	0,00 US$
Correo Electrónico del Centro de Coordinación del Evento:	cifalom@yorku.ca
Colaboración:	CIFAL York, , York University, , ADERSIM

ANTECEDENTES

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.

OBJETIVOS DEL EVENTO

- 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.

OBJETIVOS DEL APRENDIZAJE

- 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.

CONTENIDO Y ESTRUCTURA

- 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

METODOLOGÍA

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

PÚBLICO OBJETIVO

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