



# Know Before You Go

Drone Safety Rules in Canada



RDIMS 16995377



Transport  
Canada

Transports  
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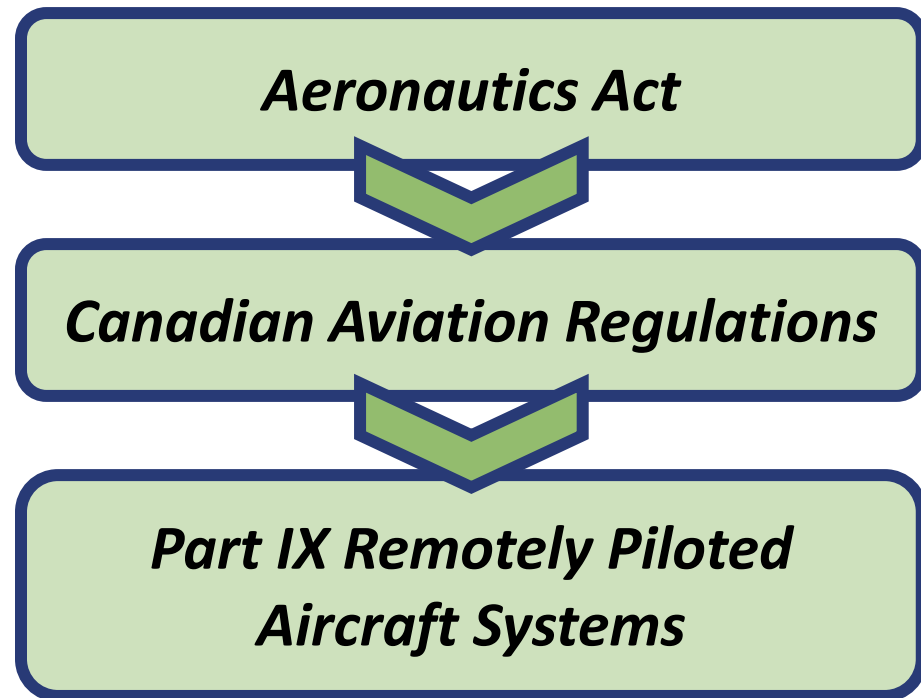
# Overview

- Structure of Canadian drone safety rules
- Key requirements
- Implementation of the rules
  - Public education
  - Enforcement
  - Airspace access
- Challenges
- Looking ahead to 2021





# Structure of Canadian Rules



- New Part IX rules came into force on June 1, 2019
- Established new requirements for RPAS (drones)
  - Not more than 25 kg (55.11 lbs), and
  - Flown within visual line-of-sight
- Larger drones, flying over advertised events and beyond visual line-of-sight operations must get a Special Flight Operations Certificate



# Key Requirements – Visual Line-of-Sight

- **Micro drones** (less than 250 g)
  - Required to fly safely: the pilot is responsible for making sure the flight does not threaten aviation safety or the safety of other people
- **Small drones** (250 g – 25 kg)
  - Register (\$5, no expiry)
  - Get RPAS Pilot Certificate and maintain recency
    - **Basic** (uncontrolled airspace, away from people)
      - Pass online exam
    - **Advanced** (controlled airspace, near or over people)
      - Pass online exam, pass in-person flight review
- Do a site survey, fly less than 400 feet AGL, don't fly near emergency operations

**KNOW BEFORE YOU GO!**  
**FIND YOUR DRONE CATEGORY**

**YOU NEED A PILOT CERTIFICATE – BASIC OPERATIONS TO:**

- Fly in uncontrolled airspace (where no air traffic control is provided)
- Fly **+30m** from bystanders

**YOU NEED A PILOT CERTIFICATE – ADVANCED OPERATIONS TO:**

- Fly in controlled airspace with air traffic control approval ([www.canada.ca/tppe](http://www.canada.ca/tppe))
- Fly **less than 30m over** from bystanders

**YOU NEED A SPECIAL FLIGHT OPERATIONS CERTIFICATE TO FLY:**

- At an advertised event
- A drone over 25 kg
- Above 122 metres (400 feet)
- **122m+** (approximately a 30-storey building)
- **25kg+**

Canada.ca/drone-safety

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# Public Education Strategy



**53,000**  
*RPAS registered*



**51,000**  
*pilot certificates issued*  
*(90% Basic)*



**Website:** [www.Canada.ca/drone-safety](http://www.Canada.ca/drone-safety)



**Webinar Series:** A guide on how to fly safely, and showcasing unique Canadian use-cases



**Twitter Chat** (Nov 13): Connecting with Canadians to answer questions on drone safety **#DroneSafetyDay**



**Stakeholder Outreach:** Encouraging industry to share safety successes and stories through social media



**Advertisement Campaign:** Enhancing our web messaging with additional graphics, videos, and advertisements



# Enforcement Strategy

- Both Transport Canada inspectors and 13 law enforcement partners have the ability to issue fines to drone operators under the *Canadian Aviation Regulations* (CARs)
  - TC is in the process of partnering with other law enforcement agencies as well
  - Fines range from \$1,000 to \$25,000 per infraction
- Provisions in the *Criminal Code* could apply if an individual is creating mischief, flying under the influence, or endangering the safety of an aircraft





# Airspace Access

- For Advanced RPAS pilots, flights in controlled airspace are permitted with approval from NAV CANADA
- NAV CANADA is Canada's independent, not-for-profit air navigation service provider
- Working with Unifly on an app to digitize airspace access service

Fly in controlled airspace  
with air traffic control approval  
[navcanada.ca/rpas](http://navcanada.ca/rpas)





# Challenges

- How comfortable are Canadians with drone technology?
  - Some concerns around privacy (photography, data collection), noise, and safety
- Published Privacy Guidelines for Drone Users in 2019
  - For recreational, commercial and government drone pilots
  - <https://tc.canada.ca/en/aviation/drone-safety/privacy-guidelines-drone-users>
- Seeking to better understand the level of social acceptance of Canadians in 2021
- Companies working closely with the communities they want to operate in has emerged as a best practice





# Looking Ahead to 2021

- Establish **stakeholder advisory committee** (Q2 2021)
  - Planning for entirely virtual engagement in 2021
- Complete 2 of 3 social acceptance studies (Q3 2021) and advance the third study
- Publish proposed **rules for low-risk beyond visual line-of-sight** operations (Q4 2021)
- Planning for **Advanced Air Mobility**, including longer-term strategies that will provide clear regulatory paths to certification



# Thank You from the Canadian Team

