

ICT Introduction to Drones

Certificate



Domain 1: Describe the different types of drones.

- 1.1 : Identify the role of aerial drones
- 1.2 : Identify the role of ground-based drones.
- 1.3 Identify the role of water-based drones.
- 1.4 : Identify the role of space drones.
- 1.5 : Understand functions, applications and limitations for different types of drones in different industries (agriculture, surveillance, transportation, scientific research).

Domain 2: Describe the history of drones.

- 2.1 : Understand the evolution of drones.

Domain 3: Understand how drones fly.

- 3.1 : Describe Newton's laws of motion.
- 3.2 : Describe how Newton's laws apply to drones.
- 3.3 : Describe Bernoulli's principle.
- 3.4 : Understand how Bernoulli's principle helps drones fly.
- 3.5 : Describe how drones fly.

Domain 4: Describe the anatomy of an aerial drone.

- 4.1 : Describe DC motors.
- 4.2 : Understand how a battery works.
- 4.3 : Describe the anatomy of an aerial drone.

Domain 5: Describe practical applications of drones.

- 5.1 : Understand the impact of drones delivering packages.
- 5.2 : Describe how drones have impacted the workplace.

Domain 6: Describe careers in the drone business and how to start a drone business.

- 6.1 : Describe the fundamentals of starting a drone business.
- 6.2 : Identify skills needed to become a drone pilot.
- 6.3 : List the different careers in the drone industry.

Domain 7: Understand drone safety and regulations.

- 7.1 : Understand how drones comply with airspace.
- 7.2 : Describe drone safety and regulations.