



Welcome to the future – Drones are changing the World!

Drones, or formally known as unmanned aerial vehicles (UAVs), are transforming the way people get their jobs done. Today, drones are not just for hobbyists or photographers but also for a multitude of sectors and industries. For example, drones are used to assist police in tracking intruders and suspects. Drones have also been deployed for search and rescue operations, and tracking fire's progression for firefighters. In construction industries, drones are now used to monitor sites and keep track of the construction progress; while in precision agriculture, drones are used for crop monitoring, disease detection, and aerial crop spraying. There are many more interesting and exciting applications of drones, as the related technologies are just beginning to be affordable and widely available.

It's incredibly fun to fly a drone, no matter your age or experience level. Drones are extremely useful both as recreational devices and as tools of work. Before flying your drone, however, there are restriction, requirements, regulations and rules that you need to be aware of and follow.

Who should attend this UAV training

This training provides a comprehensive overview of UAVs, from theory to practical. During hands-on sessions, participants will learn how to fly a drone for general inspection. This training is ideal for professionals who intend to work on commercial drone services and consultancy projects.

Benefit

The course will enable you to:

- Understand advanced techniques for inspection
- Fly in A mode and dual operator mode
- Get UTC Professional Certification on General Inspection!

Pre-requisite: U1026 Basic Aerial Photography

Date: TBD

Time: 0900 – 1700

Venue: TBD

Course Outline

Day 1: Introduction to M600

Using drones for inspection:

- Mission planning
- Equipment planning

Introduction to M600:

- Parts of the drone
- Maintenance cycles
- Pre-flight checks
- Payloads

The 2-man system on M600:

- Trainer mode (setup, overrides)
- Pilot and mission commander (setup, function of pilot and mission commander)

Hands-on:

- Setup of dual operator mode for M600

Day 2: Flying in A Mode

Malaysian rules for commercial drone flight:

- Do's and Don't's

DJI DRTK:

- Functions
- Limitations

When to fly in A mode:

- Precautions

Hands-on:

- Flying obstacle course in A mode
- Performing rotation in A mode
- Flying in arc and rotating in A mode
- Flying through the frame and capturing pictures

Day 3: Autopilot

How to use autopilot

- GSPRO
- UgCS
- Functions
- Typical setup

Introduction to advanced cameras:

- XT thermal camera
- Z30 camera

Hands-on:

- Simple autopilot setup
- Setup of dual operator mode for M600
- Flying in dual operator mode
- Demonstration of DRTK system
- Practice for tests

Day 4: Qualification Examination

1. Practical Assessment
 - a. Performing pre-flight checks for M600
 - b. Flying obstacle course in A mode
 - c. Performing rotation in A mode
 - d. Flying in arc and rotating in A mode
 - e. Flying through the frame and capturing pictures
2. Online Examination (1.5 hours)

About AIRWORKS ACADEMY

AIRWORKS is the appointed training partner of DJI's UTC (Unmanned Aerial Systems Training Center). Aiming at UAV professional application, we offer full range of training programs including introductory courses for UAV operator, and advanced professional courses for selected industries, such as aerial photography, precision agriculture, search-and-rescue, traffic monitoring and analysis, construction and site inspection, mobile telecommunication inspection, oil and gas inspection, and more.



AIRWORKS has a robust faculty team consisting of professors and certified drone specialists who have numerous experiences in professional drone operations and applications. The team has received specialized master training by UTC Co. Ltd. In Shenzhen, China to deliver professional training courses in accordance with DJI and UTC standards and requirements.



AIRWORKS ACADEMY

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