

CAAM CERTIFIED RCOC-B

REMOTE PILOT COMPETENCY PROGRAM (BASIC)



**DRB-HICOM
UNIVERSITY**
OF AUTOMOTIVE MALAYSIA

**DRONE
ACADEMY**
— ASIA —



LOCATION

DRB-HICOM University Of Automotive
Malaysia (DHU)
26607 Pekan, Pahang

DURATION

5 Days • 9am – 5pm

COURSE FEES

RM 6,500 per pax



COURSE OVERVIEW

To fly drones under the Malaysia Civil Aviation Regulations 2016 (Regulation 140-144), drone operators/remote pilots **must obtain a Remote Pilot Certificate of Competency-Basic (RCoC-B) to conduct Visual Line of Sight (VLOS) operations within the Specific Category.**

This certificate demonstrates that remote pilots understand the regulations, operating requirements, and procedures for safe flying of drones.

This comprehensive course includes in-depth modules to develop a remote pilot's awareness of their responsibilities in using the Malaysian Airspace.

Trainees will also need to complete a **standardised theoretical exam with a passing mark of 75%** and a **stringent practical in-field assessment for pre-flight, in-flight and post-flight evaluation** to be awarded this prestigious Certificate of Competency.



Example of Certificate

COURSE OBJECTIVE

This course enables professionals to be competent remote pilots through theoretical and practical flight learning and development.

LEARNING OUTCOMES

- Learn about the Malaysian Civil Aviation Regulations 2016 and the roles and responsibilities of the International Civil Aviation Organisation (ICAO) and UAS Regulators in Malaysia.
- Understand the general airspace shared among the aviation industry and its classifications.
- Internalise appropriate routines that represent good airmanship principles.
- Know how to obtain and interpret weather information in carrying out a safe UAS flight.
- Learn to develop an Operations Manual (OM) for commercial drone operations.
- Learn about the physical limits of human performance to ensure safe & efficient flying.
- Master all the standard operating procedures of all phases of flight from pre-flight, in-flight, and post-flight.



COURSE MODULES

In accordance with CAAM Civil Aviation Directive 6011 Part I:
Syllabus for RCoC-B (Issue 1st March 2021):

Module 1: UAS General Knowledge

- 1.1 UAS Principles of Flight
- 1.2 Electronic Components
- 1.3 Flight Control Modes
- 1.4 UAS Limitations

Module 2: Air Law and Responsibilities

- 2.1 Terminology
- 2.2 Introduction to ICAO and Civil Aviation Act
- 2.3 UAS Regulation
- 2.4 Privacy and Data Protection

Module 3: UAS Airspace Operating Principles

- 3.1 Airspace Overview
- 3.2 Airspace Classifications
- 3.3 Identify Specific Airspace Types
- 3.4 Obtaining UAS Operation Approvals/Permits

Module 4: Airmanship and Aviation Safety

- 4.1 Operations within Visual Line of Sight (VLOS)
- 4.2 Operating Environment
- 4.3 Aeronautical Decision Making
- 4.4 Remote Pilot Records

Module 5: Operations Manual (OM)

- 5.1 The Purpose of an Operations Manual
- 5.2 Basic Structure of an Operations Manual
- 5.3 Operations Manual Framework
- 5.4 Operations Manual Summary and Example

COURSE MODULES

Module 6: Meteorology

- 6.1 Weather Reporting Sources
- 6.2 Low-Level Weather Charts
- 6.3 Interpreting Advanced Weather Information
- 6.4 Effect of Weather on UAS

Module 7: UAS Direction Sensing and Navigation

- 7.1 Interpretation of Aviation Charts
- 7.2 Aeronautical Charts Apps
- 7.3 Navigation Aids with GPS, GNSS
- 7.4 Understanding Satellite Signals and GPS Accuracy

Module 8: Human Performance Limitations

- 8.1 Medical Fitness
- 8.2 Human Perception and Limitations
- 8.3 Situational Awareness
- 8.4 Fatigue and Attentiveness

Module 9: UAS Equipment Maintenance & Component Handling

- 9.1 Basic UAS Maintenance and Inspection
- 9.2 UAS Maintenance Log
- 9.3 UAS Hardware Handling Practices
- 9.4 UAS Battery Handling Best Practices

Module 10: UAS Operational Procedures

- 10.1 Pre-Flight Mission Planning, Risk Assessment and Standard Operating Procedures
- 10.2 UAS Practical Flight Simulation and Maneuvers
- 10.3 In-Flight Emergency Procedures, Preventative Measures and Responses
- 10.4 Practical Flight Practice and Assessment

COURSE SUMMARY

Scan to
WhatsApp us.



DURATION

5 Days, 9am-5pm
(Inc. Assessments)



COURSE FEES

RM 6,500



PREREQUISITES

Beginner Drone
Operating Skills
Preferred



CERTIFICATE

Remote Pilot
Certificate of
Competency-B



MINIMUM AGE

18 Years Old



LOCATION

Pekan



EQUIPMENT

DJI Matrice 4
Enterprise
or
DJI Mavic 3
Enterprise



MATERIALS PROVIDED

Training & Exam
Preparation
Materials, Meals for
5 Days and Drone
Academy Asia
Trainee T-Shirt

QUALIFICATION

SPM English (Pass)
or above



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DRB - HICOM University





RCOC-B COURSE SCHEDULE

5 DAYS | THEORETICAL EXAMINATION | PRACTICAL ASSESSMENT

DAY 1

TIME	CONTENT	
9.00 am – 11.00 am	UAS General Knowledge	• UAS Principles of Flight • Electronics and UAS Limitations
11.00 am – 1.00 pm	Air Law Responsibilities	• UAS Laws, Rules & Regulations in Malaysia • Privacy and Data Protection
1.00 pm – 2.00 pm	Lunch	
2.00 pm – 3.30 pm	Operational Procedures	• Flight Venue and Environment Consideration • Standard Operating Procedures (Pre-flight to Post-flight)
3.30 pm – 4.45 pm	Simulators and Setup with Checklist	
4.45 pm – 5.00 pm	Conclude Day 1: Q&A	

DAY 2

TIME	CONTENT	
9.00 am – 11.15 am	UAS Airspace Operating Principles/Rules of Air	• Malaysia's Airspace • Obtaining UAS Operation Approvals/Permits
11.15 am – 1.00 pm	UAS Direction Sensing & Navigation	• Interpretation of Aviation Charts • Navigation Aids with GPS, GNSS
1.00 pm – 2.00 pm	Lunch	
2.00 pm – 3.30 pm	Meteorology	• Weather Reporting Sources • Effect of Weather on UAS
3.30 pm – 4.45 pm	Outdoor Flight Practice I	• Basic Maneuvering • Sortie 1 and 2
4.45 pm – 5.00 pm	Conclude Day 2: Q&A	

DAY 3

TIME	CONTENT	
9.00 am – 11.15 am	Outdoor Flight Practice II	• Sortie 3 and 4
11.15 am – 1.00 pm	Human Performance Limitations	• Medical Fitness • Human Perception and Limitations
1.00 pm – 2.00 pm	Lunch	
2.00 pm – 3.45 pm	Airmanship and Aviation Safety	• Good Airmanship Principles and Aviation Safety • Aeronautical Decision Making
3.45 pm – 4.45 pm	Risk Assessment + SORA	
4.45 pm – 5.00 pm	Conclude Day 3: Q&A	



RCOC-B COURSE SCHEDULE

5 DAYS | THEORETICAL EXAMINATION | PRACTICAL ASSESSMENT

DAY 4

TIME	CONTENT	
9.00 am – 11.30 am	Outdoor Flight Practice III	Sortie 5 and 6
11.30 am – 1.00 pm	Operations Manual	- Operation Manual Chapters and Information - Operation Manual Samples
1.00 pm – 2.00 pm	Lunch	
2.00 pm – 4.30 pm	Outdoor Flight Practice IV	Practice
4.30 pm – 5.00 pm	Mock Exam	
5.00 pm	Conclude Day 4: Q&A	

DAY 5

TIME	CONTENT
9.00 am – 11.30 am	Theoretical Exam Slot 1 Practical Exam Slot 1
11.30 am – 1.00 pm	Practical Exam Slot 2
1.00 pm – 2.00 pm	Lunch
2.00 pm – 4.30 pm	Theoretical Exam Slot 2 Practical Exam Slot 3
4.30 pm – 5.00 pm	Conclude Day 5: Q&A