

**CAAM CERTIFIED RCOC
MODULE 2 AGR**

REMOTE PILOT CERTIFICATE OF COMPETENCY: AGRICULTURAL UAS OPERATIONS (AGR)

The UAV Academy of Asia Sdn Bhd (1302071-D)

**DRONE
ACADEMY**
— ASIA —



LOCATION

Futurise Centre, Persiaran APEC,
Cyber 8, Cyberjaya Selangor.

DURATION

3 Days • 9am – 5pm

COURSE FEES

RM 3,800 per pax



COURSE OVERVIEW

The development of Agricultural Drone (Unmanned Aircraft Systems – UAS) Technology has contributed to Smart Farming to increase crop output while optimising the human labour required for production.

Through Drone Applications such as Mapping and Surveying to Agriculture Spraying, Drones have helped farmers and planters manage crops to ensure the efficiency of inputs such as water and fertiliser and maximise productivity, quality, and yield. Drones have also helped in minimising pests and diseases.

This comprehensive course includes in-depth modules to ensure drone operators practice standard operating procedures during agriculture operations and understand the regulations they must adhere to regarding pesticide handling and dispensation.

Under the Civil Aviation Directive 6011 Part (II) – Unmanned Aircraft System Agricultural UAS Operations, which highlights the safety requirements of airworthiness and operational standards, drone operators must have the Remote Pilot Certificate of Competency-Basic and Agriculture UAS Operations Certificate if the dispensation of Agricultural Payload is involved.

COURSE OBJECTIVE

Through theoretical and practical operations learning and development, this course enables professionals to become a CAAM (Civil Aviation Authority of Malaysia) Certified Remote Pilot for Agriculture UAS Operations.

LEARNING OUTCOMES

This training prepares the trainee to operate Agriculture Spraying UAS in a safe and effective manner in accordance with Malaysia UAS and pesticide application safety rules and regulations.

COURSE MODULES

In accordance with CAAM Civil Aviation Directive 6011
Part I: Syllabus for RCoC Module 2 AGR (Issue 1st March 2021):

Module 1: Introduction to Agriculture Spraying

- 1.1 Introduction to Aerial Spraying
- 1.2 A Complete UAS Solution
- 1.3 Type of Agriculture Spraying
- 1.4 UAS Application & Crop Types

Module 2: UAS & Pesticides Safety, Laws, Rules and Regulations

- 2.1 Recap on UAS Regulations in Malaysia
- 2.2 Pesticides Act 1974
- 2.3 Pesticide (Licence for Sale and Storage for Sale) Rules 2007
- 2.4 Pest Control Operator Rules 2004
- 2.5 Pesticide (Labelling) Rules 1984
- 2.6 Pesticide Residue and The Importance of Food Safety
- 2.7 Safety in Handling of Pesticides
- 2.8 Risk Assessment for Agricultural UAS Operation

Module 3: Spraying Operation Limitations

- 3.1 Meteorology
- 3.2 Airmanship and Aviation Safety
- 3.3 Operation Crews' Responsibilities and Personal Safety
- 3.4 Human Performance Limitations



COURSE MODULES

Module 4: Operations with Agriculture Spraying UAS

- 4.1 Introduction to UAS Flight Control, Components and App Interface
- 4.2 Spraying Operation Planning
- 4.3 Standard Spraying Operating Procedures
- 4.4 Maintenance Procedures

Module 5: Practical Session I

- 5.1 Basic Manoeuvres in a Virtual Environment
- 5.2 Spraying UAS Flight Manoeuvres including Take-off and Landing
- 5.3 Dispensation Operations Preparation with Checklist
- 5.4 Manual Dispensation Operations

Module 6: Practical Session II

- 6.1 Automatic Spraying Mission Planning
- 6.2 Automatic Spraying Mission Execution
- 6.3 Equipment Handling and Maintenance
- 6.4 Emergency Responses

Module 7: Assessments

- 7.1 UAS Regulations and Pesticide Act Test
- 7.2 Documentation of Spraying Operation
- 7.3 Practical Assessment
- 7.4 Theoretical Exam

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COURSE SUMMARY



DURATION

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



COURSE FEES

RM 3,800



PREREQUISITES

RCoC-B



CERTIFICATE

RCoC Module 2
AGR



MINIMUM AGE

18 Years Old



LOCATION

Cyberjaya



EQUIPMENT

Mist Drone



MATERIALS PROVIDED

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

QUALIFICATION

SPM English Grade
C+ and above



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RCOC MODULE 2 AGR COURSE SCHEDULE

3 DAYS | THEORETICAL EXAMINATION | PRACTICAL ASSESSMENT

DAY 1

TIME	CONTENT	
9.00 am – 11.15 am	Introduction to Agriculture Spraying UAS	<ul style="list-style-type: none"> Spraying UAS Solution Aerial Spraying Types and Applications
11.15 am – 1.00 pm	UAS & Pesticides Safety, Laws, Rules and Regulations	<ul style="list-style-type: none"> UAS Laws, Rules & Regulations in Malaysia Pesticide Act 1974
1.00 pm – 2.00 pm	Lunch	
2.00 pm – 3.45 pm	UAS & Pesticides Safety, Laws, Rules and Regulations (Cont.)	<ul style="list-style-type: none"> UAS Laws, Rules & Regulations in Malaysia Pesticide Act 1974
3.45 pm – 4.45 pm	CAD 6011 Part (II) Agricultural UAS Operations	<ul style="list-style-type: none"> Highlights AWC Application
4.45 pm – 5.00 pm	Conclude Day 1: Q&A	

DAY 2

TIME	CONTENT	
9.00 am – 10.45 am	Spraying Operation Limitations	<ul style="list-style-type: none"> Meteorology Spraying UAS Operator Responsibilities and Limitations
10.45 am – 11.30 am	(Blanket Spraying) Agriculture Spraying UAS Flight Principles and Components Functionality	<ul style="list-style-type: none"> Spraying UAS Components and Functionality Flight App Interface
11.30 am – 12.00 pm	(Blanket Spraying) Spraying Operation Planning	<ul style="list-style-type: none"> GNSS and Location Data Precision Spraying Operation Mission Planning Methods
12.00 pm – 1.00 pm	(Blanket Spraying) Standard Spraying Operating Procedures	<ul style="list-style-type: none"> Spraying Operation Setup Spraying Operation Mission Execution
1.00 pm – 2.00 pm	Lunch	
2.00 pm – 3.45 pm	UAS & Pesticides Safety, Laws, Rules and Regulations (Cont.)	<ul style="list-style-type: none"> Spraying Mechanism Cleaning UAS Maintenance and Components Handling
3.45 pm – 4.45 pm	Practical Session: #1 Basic Manoeuvres in a Virtual Environment (If necessary) #2 Spraying UAS Flight Manoeuvres including Take-Off and Landing #3 Dispensation Operations #4 Automatic Spraying Mission Execution #5 Equipment Handling and Maintenance	
4.45 pm – 5.00 pm	Conclude Day 2: Q&A	

RCOC MODULE 2 AGR COURSE SCHEDULE

3 DAYS | THEORETICAL EXAMINATION | PRACTICAL ASSESSMENT

DAY 3

TIME	CONTENT
9.00 am – 12.30 pm	Risk Assessment + Practical Assessment
12.30 pm – 1.30 pm	Lunch
1.30 pm – 4.45 pm	Theoretical Exam
4.45 pm – 5.00 pm	Conclude Day 3: Q&A