

(3 Days)



# "DRONE PILOTING COMPETENCY TRAINING"

Precision and Proficiency



**GIVING SKILLS AND COMPETENCE IN DRONE SUPERVISION AND  
OPERATION**

Learning Outcome:

- >> Introduction to UAV, Safety and Legal Considerations, Flight Planning and Risk Management, Maintenance & Storage
- >> Application in Specific Industry & Drone Insurance
- >> Practical Drone Flight Simulation with Maneuvers Test
- >> Practical Training of Drone Operation in the Field
- >> Drone Competency Certificate



CONSTRUCTION



OIL & GAS



AGRICULTURE



SECURITIES



INSPECTION



MyCoID: 202001011283 Training Prog. No. 10001344058

For more information please feel to contact us at [admin@archidrone.my](mailto:admin@archidrone.my) or  
WhatsApp :

# TRAINER PROVIDER BACKGROUND



We provide consultancy services for drone data services/Drone as a Service (DaaS), architectural design, 3D modeling, animation, and related Building Information Modeling (BIM) work.

To meet the demands of skilled drone pilots in the future by Industry 4.0, we offer a comprehensive drone course and practical training based on a National Occupational Skill Standard (NOSS) syllabus.

Our goal is to produce professional drone pilots who are knowledgeable about laws, regulations, technical aspects, and maintenance.

We are appointed as a certified Practical Assessment Centre utilizing the Previous Experience and Achievement/ Pusat Penilaian Amali (PPT) approach to conduct practical tests for the Malaysia Skills Certificate (SKM) among private and government entities in the field of drone flying. (SKM Level 2 – Drone Piloting & SKM Level 3 – Drone Commanding)

Additionally, we offer courses related to UAV applications in industries, technology, AI, and IoT.

Archidrone is also appointed as a registered Training Provider (TP) by HRDC, MBOT, and CIDB to conduct courses on UAS.

[www.archidrone.my](http://www.archidrone.my)



## **COURSE OVERVIEW**

This comprehensive UAV course covers the essentials of UAV operations, including their history, types, applications, safety protocols, legal regulations, flight planning, maintenance, simulator practice, and real-world flight training, preparing participants for professional use in various industries. The learning syllabus is based on the JPK Skills Development Department's National Occupational Skills Standard (NOSS).

This program is also aimed at preparing participants for the Practical Test - Malaysia Skills Certificate using the Recognition of Prior Achievement (RPA) (Manual Flight, Autonomous Flight, and Oral Test) and to ensure that the candidate is fully prepared if the participant decides to apply to the SKM Practical Test under the supervision of the Skills Development Department (JPK).

## **TRAINING METHODOLOGY:**

Face-to-face and hands-on (Theory & Practical)

## **COURSE OUTLINE:**

### **Module 1: Introduction of UAV & Revolution**

Introduces the history, evolution, and diverse applications of UAV technology, highlighting its revolutionary impact across industries.

### **Module 2: Law & Regulation of UAV in Malaysia**

Participants learn about the legal framework and regulations governing UAV operations in Malaysia, ensuring compliance and safe practices.

### **Module 3: Flight Phase & Risk Management**

It is understanding the different phases of a drone flight and implementing risk management strategies to ensure safe and successful operations.

### **Module 4: Drone Maintenance & Storage**

Covering maintenance procedures and storage practices to ensure UAVs' longevity and optimal performance.

### **Module 5: Application, System, Flight Mode & Data Generation**

Introduce various UAV applications, system components, flight modes, and data generation processes for different industries.

### **Module 6: Introduction of Drone Insurance in Malaysia**

Understanding the importance of drone insurance and the types of coverage available to mitigate risks associated with UAV operations.

### **Module 7: Drone Flight – Simulation Training:**

1. Hands-on simulated drone flight training to develop piloting skills and decision-making abilities in a safe and controlled environment.

### **Module 8. Drone Flight – On Field / Outdoor:**

Practical outdoor training sessions where participants apply their knowledge and skills in real-world scenarios, under supervision



## TRAINING SCHEDULE

### (3 DAY) DRONE COMPETENCY TRAINING – Precision and Proficiency

TIME	8.30am – 10.30am	10.30-11.00	11.00am-13.00pm	13.00-14.00	14.00pm-15.30pm	15.30-15.45	15.45pm-17.15pm
HOUR	2.0	0.5	2.0	1.0	1.5	0.25	1.5
DAY 1	<b>THEORY INDOOR</b> <ul style="list-style-type: none"> <li>INTRODUCTION OF UAV</li> <li>SAFETY &amp; LEGAL CONSIDERATION PART 1</li> </ul>	<b>THEORY INDOOR</b> <ul style="list-style-type: none"> <li>SAFETY &amp; LEGAL CONSIDERATION PART 2</li> <li>Q&amp;A</li> </ul>	<b>THEORY INDOOR</b> <ul style="list-style-type: none"> <li>FLIGHT PLANNING AND RISK MANAGEMENT</li> <li>Q&amp;A</li> </ul>	<b>THEORY INDOOR</b>	<b>THEORY INDOOR</b> <ul style="list-style-type: none"> <li>DRONE MAINTENANCE &amp; STORAGE</li> <li>Q&amp;A</li> </ul>	<b>THEORY INDOOR</b>	<b>THEORY INDOOR</b>
	<b>THEORY INDOOR</b> <ul style="list-style-type: none"> <li>APPLICATIONS IN SPECIFIC INDUSTRIES</li> <li>DRONE INSURANCE IN MALAYSIA</li> </ul>						
DAY 2	<b>THEORY INDOOR</b> <ul style="list-style-type: none"> <li>APPLICATIONS IN SPECIFIC INDUSTRIES</li> <li>DRONE INSURANCE IN MALAYSIA</li> </ul>	<b>THEORY INDOOR</b>	<b>THEORY INDOOR</b>	<b>THEORY INDOOR</b>	<b>THEORY INDOOR</b>	<b>THEORY INDOOR</b>	<b>THEORY INDOOR</b>
DAY 3	<b>THEORY INDOOR</b> <ul style="list-style-type: none"> <li>APPLICATIONS IN SPECIFIC INDUSTRIES</li> <li>DRONE INSURANCE IN MALAYSIA</li> </ul>	<b>THEORY INDOOR</b>	<b>THEORY INDOOR</b>	<b>THEORY INDOOR</b>	<b>THEORY INDOOR</b>	<b>THEORY INDOOR</b>	<b>THEORY INDOOR</b>



## TRAINER PROFILE

Ts. MUHAMMAD RUFİ A.LATIFF  
*Director ADSB / Drone Instructor*

- Bachelor (Hons) Architecture (UTM)
- Vocational Training Officer VTO Level 3
- SKM Drone Piloting Level 2
- TTT Certificate Trainers
- RCOC-B

Experience In UAV: 10+ Years &  
 Architecture: 20 Years

Team Development VRS System  
 UAV Construction Progress & Asset  
 Inspection (Survey, Mapping & BIM)  
 UAV in Cinematography & Photography



**MUHAMMAD RUFİ A.LATIFF** graduated Bac Arch (Hon) from UTM 2002. As the company's owner, he has been in charge of managing ARCHIDRONE since 2017 (Enterprise Company), and in May 2020, he established ARCHIDRONE SDN BHD. He is in responsible of the company's development and growth, especially the use of drones in the area-building industry.

He is without a doubt a creative thinker, a deadline-driven individual, and a detail-oriented architect with more than 20 years of experience in architectural design, consulting, and construction for large-scale projects in Malaysia and Ireland. He works closely with project owners and team members on the ground to solve related problems, particularly in terms of technical solutions utilising drone technology. Due to the widespread use of drones in Malaysia

Since drone technology became available in Malaysia in 2014, he has focused on using it for work that includes preliminary work beginning with the design process, construction phase, and building maintenance. In addition, a lot of aerial photography and videography projects are donated to government and private organizations for use in marketing and business.

With his experience, he was selected by the Department of Skills Development in 2018 to participate on an assessment panel for the development of a drone teaching syllabus in Malaysia to meet the National Occupation Skills Standard NOSS and the building of an official Malaysia Skills Certificate in the field of drones. In line with the Department Skills Development (JPK), he has a Vocational Training Operation (VTO) qualification and HRDF Exempted Train the Trainer (TTT) status to obtain qualification as an instructor, especially in the field of Drones.

Finally, it is established that with knowledge of operating and commanding drones in the construction industry as well as working as an architect, the combination of these 2 experiences is expected to benefit the workforce of the nation, especially in the IR4.0 industrial area.

# TRAINER PROFILE

## MOHD HAIRUL FADLI BIN HASHIM

*Drone Instructor*

- Bachelor in Engineering (UTM)
- Vocational Training Officer VTO Level 3
- SKM Drone Mission Commanding Level 3
- SKM Drone Piloting Level 2
- TTT Certificate Trainers
- **Unity Certified User: programmer**
- RCOC-B

Experience In UAV: 10+ Years  
 Team Development VRS System  
 Expert in UAV Fixed Wing



**MOHD HAIRUL FADLI BIN HASHIM** holds a Bachelor's degree in Electrical Engineering from Universiti Teknologi Malaysia (2014), showcasing his dedication to knowledge and technical proficiency.

He is certified with SKM Drone Level 2 and 3, Vocational Training Operation (VTO) from Jabatan Pembangunan Kemahiran Malaysia (JPK), and HRDF Exempted Train the Trainer (TTT) status, highlighting his commitment to training and knowledge sharing. As an Exco Member (R&D) of the Malaysia UAV Drone Activist Society (MUDAS) for 2022/2023, he is actively involved in the drone community.

Hairul has extensive project experience in VR/AR app development for farming, construction, and surveying, demonstrating his ability to apply cutting-edge technology to practical solutions. He has also developed AR apps for cultural heritage tourism, attended the VR/AR train-the-trainer program, and participated in the ASIA XR SKILLS™ SUMMIT to stay updated on immersive technologies.

His skills include immersive 360-degree photo and video production for ground and aerial scenarios, contributing to 360 virtual reporting for construction progress and safety audits. Proficient in software tools like Adobe Premier Pro, After Effects, and Photoshop, Hairul excels in multimedia and data management. He is also familiar with Unity3D, Blender, and SketchUp.

Beyond his technical abilities, Hairul possesses strong leadership and teamwork skills, excels under pressure, and is a dedicated problem solver. His efficient task management and commitment to safety make him an asset in responsible drone operations. His passion for outdoor activities reflects his energetic and adventurous spirit.

In summary, Hairul is a well-rounded professional with a robust educational background, extensive drone operations and software skills, a strong commitment to safety, and a passion for advancing technology. His project experience and personal attributes make him a valuable asset in drone technology and beyond.

## TARGET GROUP BY DESIGNATION

- |                              |                                        |
|------------------------------|----------------------------------------|
| 1. Construction Managers     | 11. Infrastructure Planners            |
| 2. Building Inspectors       | 12. Risk Analysts                      |
| 3. Asset Managers            | 13. Government Officials               |
| 4. Surveyors                 | 14. GIS Specialist                     |
| 5. Architects and Engineers  | 15. Drone Operators                    |
| 6. Environmental Consultants | 16. Agricultural Professional          |
| 7. Safety Inspectors         | 17. Remote Sensing Analysis            |
| 8. Solar Inspector/ Managers | 18. Academics & Students               |
| 9. Real Estate Professionals | 19. Forestry and Forestry Management   |
| 10. Insurance Adjusters      | 20. Mining and Quarrying Professionals |

## TARGET INDUSTRY

- |                                      |                                    |
|--------------------------------------|------------------------------------|
| 1. Construction and Engineering      | 8. Government and Public Sector    |
| 2. Real Estate                       | 9. Safety and Compliance           |
| 3. Infrastructure Development        | 10. Architectural and Design Firms |
| 4. Facility Management               | 11. Mining and Quarrying           |
| 5. Environmental Consulting          | 12. Agriculture                    |
| 6. Surveying and Geospatial Services | 13. Utility and Energy             |
| 7. Insurance and Risk Management     | 14. Telecommunication              |



**MyCoID: 202001011283**

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