

## UAS Pilot Training Syllabus

Day	Location	Lesson	Time	Content	Objectives	
<b>Course Objectives</b> <ol style="list-style-type: none"> <li>1. <b>Safety</b> – Safe flying and how to react during emergency situations.</li> <li>2. <b>Solution</b> – Understanding DJI commercial UAS solutions and the latest UAS technology.</li> <li>3. <b>Operation</b> – Learning about the DJI Pilot app and how to operate DJI's latest commercial drone platform.</li> <li>4. <b>Mission</b> – Utilizing UAS to capture mission data.</li> <li>5. <b>Maintenance</b> – Standard equipment maintenance operations.</li> </ol>						
Day 1	Classroom	Overview & Safety Educations	9:00 – 9:30	1. Introduce onsite training schedule & testing 2. Review and stress on the safety flight	<ol style="list-style-type: none"> <li>1. Understand the training schedule and testing procedures</li> <li>2. Build up and stress on safety awareness</li> </ol>	
		Drone System & Operations	9:30 – 11:00	Review UAS system & DJI Pilot	<ol style="list-style-type: none"> <li>1. Familiarize with drone system</li> <li>2. Familiarize with DJI Pilot 2</li> <li>3. 3. Be familiar with M3E</li> </ol>	
		Maintenance Practice	11:00 – 12:00	Review and practice maintenance and system care with M3E	Know how to do basic maintenance and system care	
	<b>Lunch Break (12:00 – 13:00)</b>					
	Field Practical	Flight Preparations	13:00 – 13:30	Set-up, preflight check, safety strategy setting, etc.	Know how to set up drone & prepare for safety flight	
	Task 1: Basic Flight Practice	13:30 – 17:00	Take-off - straight route - landing (incl. remote landing)	Familiarize with the manoeuvring of take-off, straight flight at constant velocity, land at specific spot		
	Task 2 & 3: Route Flight Practice		Rectangular route flight (Tail-in & nose-in)	Achieve stable and straight rectangular route flight with orientation of tail-in & nose-in		
	Task 4 & 5: Circling Flight		Circle route flight (nose-in & point-to-centre)	Improve manoeuvring skill and achieve stable and constant-velocity, circle route with orientation of nose-in and point-to-centre		
Day 2	Classroom	Emergency Procedures	9:00 – 9:30	Review and interpret common emergencies during flight	Familiarize with common emergency issues and troubleshooting	
	Field Practical	Task 8, 9, 10, 11: Emergencies Procedures	9:30 – 12:00	GPS signal lost, remote signal lost, orientation lost, low battery	Familiarize with the response operation to common emergencies (hands-on)	
<b>Lunch Break (12:00 – 13:00)</b>						

	Field Practical	Task 6: FPV Flight	13:00 – 14:00	Practice flying with the drone's FPV feed	Familiarize with the FPV flight	
		Task 7: Inspection Mission	14:00 – 17:00	Set up an inspection area, randomly place several QR codes; fly the drone in screen view to search specific targets and take clear photos (QR code shall be recognized)	<ol style="list-style-type: none"> <li>Can fly the drone to search targets (FPV)</li> <li>Know how to set camera and parameters to take clear photos</li> </ol>	
Day 3	Classroom	Theory Examination	9:00 – 10:30	UTC online examination system	Score 80% or above to pass the theory examination (100 multiple choice questions)	
	Field Practical	Practical and Test Interpretation	10:30 – 11:00	Introduce practice test procedures and standards	Familiarize with the testing procedures and standards	
		Practical and Test Interpretation	11:00 – 12:00	Students go through the test procedure and practical	Improve skills and practical to ensure a pass	
	<b>Lunch Break (12:00 – 13:00)</b>					
	Field Practical	Practical and Test Preparation	13:00 – 14:00	Students go through the test procedure and practical	Improve skills and practical to ensure a pass	
	Practical Test	14:00 – 17:00	Part 1: Preflight set-up and check Part 2: Circling flight manoeuvring Part 3: Inspection mission (search & capture QR code) Part 4: Emergencies procedures Part 5: Post-test operation	Score 80% or above to pass the practical test		

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