

# Small Unmanned Aircraft (SUA) Advanced Rating Training

Let's be a CAD certified pilot for SUA!



Course Fee: HK\$9,840 (May apply up to HK\$6,560 subsidy)

\*Maximum saving, with the final grant subjects to approval.

In recent years, SUA technology becomes one of the FutureSkills required in the Industry 4.0 era. It is important to understand how to fly a drone safely and legally without endangering others. However, much of the public is not familiar with the drone regulations and restrictions.

Hong Kong Productivity Council (HKPC) is one of the Training Organisations working with Civil Aviation Department (CAD) on the pilot scheme of SUA Advanced Rating Training Course. In this course, syllabus is based on the requirements of Advanced Rating Training from CAD. Pilot Scheme assists participants in the early understanding of safety oversight requirements and applications for conducting advanced operations and enables graduates to apply for CAD Advanced Rating under the new legislation.

<b>Date and time</b>	Day 1 – Day 5 09:00 - 18:00
<b>Venue</b>	<u>HKPC Building :</u> Theoretical Knowledge Instruction <u>OTG Venue :</u> Practical Flight Training
<b>Medium</b>	English materials with Cantonese instruction
<b>Course fee</b>	HK\$ 9,840 per person
<b>Remarks</b>	<ul style="list-style-type: none"> <li>• Course fee includes training material, flight training, drone rental, administration and assessment fees</li> <li>• 2 hours flight log is required to be submitted for each participant</li> <li>• Participant with drone flying experience is recommended</li> </ul>

## Objectives

After attending theoretical knowledge training and practical flight training, participants need to pass the theoretical examination & practical assessment to prove the competence in operating SUA. Participants may

- ✓ Obtain knowledge of SUA operation and safety regulation in Hong Kong
- ✓ Obtain certificate issued by Hong Kong Productivity Council to apply for Advanced Rating from Civil Aviation Department (with minimum participation of 80% of total training hours, passed theoretical knowledge examination & practical assessment)

### NITTP Training Grant Application

Companies should submit their NITTP training grant application for their employee(s) via <https://nittp.vtc.edu.hk/rttp/login> at least **five weeks before** course commencement. Alternatively, [application form](#) could be submitted to the Secretariat in person, by post, by fax or by email to [nittp@vtc.edu.hk](mailto:nittp@vtc.edu.hk) together with supporting documents.

This course is subject to approval under the New Industrialisation and Technology Training Programme (NITTP) with up to 2/3 course fee reimbursement upon successful applications. For details: <https://nittp.vtc.edu.hk>.

## Course Schedule

Schedule	Duration	Content	Venue
Day 1 & 2	16 hours	Theoretical Knowledge Instruction	HKPC Building
Day 3	4 hours 2 hours	Theoretical Knowledge Instruction Theoretical Knowledge Examination	HKPC Building
Day 4	4 hours 4 hours	Practical Flight Training Practical Assessment	OTG Venue
Day 5	8 hours	Practical Assessment	OTG Venue

## Course Content

<p><b>Part 1: Rules and regulation</b></p> <ul style="list-style-type: none"> <li>✓ Local and non-local SUA regulatory bodies</li> <li>✓ Civil Aviation Ordinance and its sub-legislation with key focus on Cap. 488G</li> <li>✓ CAD's SUA safety guidelines and requirement document</li> </ul>	<p><b>Part 2: Airspace</b></p> <ul style="list-style-type: none"> <li>✓ Classification of airspace and restrictions for aircraft including SUA</li> <li>✓ Restricted Flying Zones (RFZs) for SUA</li> <li>✓ Other applicable airspace concerns</li> </ul>
<p><b>Part 3: Maps, units of measurement and navigation</b></p> <ul style="list-style-type: none"> <li>✓ Use of maps and aviation charts</li> <li>✓ Units of measurement</li> <li>✓ Conversion of time system</li> <li>✓ Principles of navigation and restrictions</li> </ul>	<p><b>Part 4: Aircraft general knowledge</b></p> <ul style="list-style-type: none"> <li>✓ Principles of flight</li> <li>✓ Essential systems and components of SUA</li> <li>✓ Operational limitations</li> <li>✓ Maintenance and battery management</li> </ul>
<p><b>Part 5: Meteorology</b></p> <ul style="list-style-type: none"> <li>✓ Effects on SUA</li> <li>✓ Obtaining and interpreting weather information</li> <li>✓ Local weather assessments prior to SUA operations</li> </ul>	<p><b>Part 6 : Airmanship and human performance</b></p> <ul style="list-style-type: none"> <li>✓ Flight safety</li> <li>✓ Crew Resources Management (CRM)</li> <li>✓ Documentation and record keeping</li> <li>✓ Perception and illusion</li> <li>✓ Medical fitness</li> </ul>
<p><b>Part 7 : Operations manual, flight planning and procedures</b></p> <ul style="list-style-type: none"> <li>✓ Pre-planning</li> <li>✓ Risk assessment and management</li> <li>✓ Normal and emergency operating procedures</li> <li>✓ Operations Manual (OM) and checklists</li> <li>✓ Hazard and situational awareness</li> <li>✓ Communication with Air Traffic Control and other airspace users</li> <li>✓ Pre-flight, in-flight and post-flight procedures</li> </ul>	

\*Course content is subject to change without further notice.

## SUA Training Organisation (STO) Examiners & Trainers

### **Mr Lyan LAW**

- Programme Manager, SUA Training Organisation
- Head, Industry 4.0 and Industrial Drone Solution, Greater Bay Area Business Development Division
- Digital@HKPC & Reindustrialisation Center Manager, HKPC
- Hong Kong Industrial Drone Technology Center Manager, HKPC
- Registered Remote Pilot (Advanced Rating), Hong Kong Civil Aviation Department
- Certified Industrie 4.0 Expert & Industrie 4.0 Principal Advisor, Fraunhofer IPT Germany
- Certified Drone Pilot – Commercial (CDP-C), UAV Academy, UK
- Certificate of Competence in Remote Pilot – Theoretical Knowledge/General Airmanship Syllabus, UAC Academy, UK
- Certificate of Practical Flight Assessment, UAV Academy, UK

### **Mr Dennis WONG**

- Head of Instructors & Practical Assessors, SUA Training Organisation
- Senior Consultant, Industrial Drone Solution, Greater Bay Area Business Development Division, HKPC
- Head of Drone Pilot Instructor, HKPC
- Registered Remote Pilot (Advanced Rating), Hong Kong Civil Aviation Department
- Hong Kong Industrial Drone Technology Center Certified Pilot, HKPC
- Certified Drone Pilot - Commercial (CDP-C), UAV Academy, UK
- Certificate of Competence in Remote Pilot - Theoretical Knowledge/General Airmanship Syllabus, UAV Academy, UK
- Certificate of Practical Flight Assessment, UAV Academy, UK
- Agricultural Drone Operator Licence – XAG

### **Mr Burse TSE**

- Lead Instructor & Practical Assessor, OTG OnTheGo Limited
- Examiner and Instructor, DJI Academy UTC Hong Kong
- Registered Remote Pilot (Advanced Rating), Hong Kong Civil Aviation Department
- Certified Drone Pilot – Commercial UAS Training – Level 1, Aerial Photography (Basic) & UAS Inspection, DJI Academy UTC Hong Kong
- Certified Drone Pilot – Remote Pilot License (RePL), up to 25kg, FPV Australia, Civil Aviation Safety Authority, Australia
- Chief Consultant, Chinese UAS Education Development Exchange Association (中華無人機教育發展交流協會)

### **Mr Wilson LAU**

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- Instructor, DJI Academy UTC Hong Kong
- Registered Remote Pilot (Advanced Rating), Hong Kong Civil Aviation Department
- Certified Drone Pilot – Commercial UAS Training – Level 1, DJI Academy UTC Hong Kong
- Examiner and Senior Instructor, FPV Australia, Civil Aviation Safety Authority, Australia
- Certified Drone Pilot – Remote Pilot License (RePL), up to 25kg, FPV Australia, Civil Aviation Safety Authority, Australia
- Certified Drone Pilot – Part 107 Remote Pilot, Federal Aviation Administration

### **Mr Ricardo KWONG**

- Project Manager & Senior Instructor, OTG OnTheGo Limited
- Registered Remote Pilot (Advanced Rating), Hong Kong Civil Aviation Department
- Certified Drone Pilot – Remote Pilot License (RePL), up to 7kg, FPV Australia, Civil Aviation Safety Authority, Australia

### **Mr Sam YU**

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- Registered Remote Pilot (Advanced Rating), Hong Kong Civil Aviation Department
- Certified Drone Pilot – Aerial Photography Essentials, DJI Academy UTC Hong Kong

### Mr Welcome CHAN

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- Registered Remote Pilot (Advanced Rating), Hong Kong Civil Aviation Department
- Certified Drone Pilot – Commercial UAS Training – Level 1 & Aerial Photography Essentials, DJI Academy UTC Hong Kong
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### Mr Ricky LEUNG

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### Mr Max LAM

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### Mr Leo TSANG

- Instructor, OTG OnTheGo Limited
- Registered Remote Pilot (Advanced Rating), Hong Kong Civil Aviation Department

## Enrolment Method

Please complete the enrolment form ([Download here](#)) and return the form by below method:

1. Email to [sua@hkpc.org](mailto:sua@hkpc.org)
2. Send us the crossed cheque payable to “Hong Kong Productivity Council by post within two weeks.”

Mailing Address: 5/F, HKPC Building, 78 Tat Chee Avenue, Kowloon Tong, Kowloon, Hong Kong (Attn: Miss Kitty CHOW). Please write down your full name, contact no. and course name at the back of the cheque.

### Remarks

- (i) The course enrolment is made on first-come-first-served basis.
- (ii) Application will be processed only upon receipt of the completed enrolment form and payment.
- (iii) Please contact the Course Secretariat if you would like to complete the course fee by other payment methods.