



## UAV PILOT TRAINING COURSE

### Ground School

(in Association with Vortex UAS)

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**Course Description:** This executive course offers a dedicated UAV pilot training program and relevant documentation developed by Vortex UAS LLC in partnership with Marques Aviation. Vortex UAS LLC is the leading UAV flight centre in the USA and it is formed by world-class Aviators and Flight Instructors.

- Flexibility in training based on prior experience, knowledge and skill sets.
- Quad-copter flight accomplishing basic flight dynamics, manoeuvres, and theory (fixed-wing training available on request).
- Instructors have extensive military and commercial aviation experience and expertise in mapping, sensors, imaging, data collection, telemetry, inspection, agriculture and surveillance
- Included materials: Flight training manuals, Aeronautical charts, Personal pilot logbook.
- Pre-requisites: None
- Certification: Vortex Professional UAV Pilot Certification is awarded after completion of the Vortex Pro UAV Pilot course.

### Course Contents

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| <ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Legal           <ul style="list-style-type: none"> <li>▪ UAS Regulations &amp; Guidance</li> <li>▪ Airspace</li> <li>▪ Section 333</li> <li>▪ Insurance</li> <li>▪ Privacy</li> </ul> </li> <li>3. Airspace</li> <li>4. Aerodynamics</li> <li>5. UAS Mechanical Overview           <ul style="list-style-type: none"> <li>▪ Larger Crafts</li> <li>▪ Different Transmitters</li> <li>▪ OSD</li> <li>▪ Batteries</li> <li>▪ Motors</li> <li>▪ Sensors</li> <li>▪ Video Camera's training</li> </ul> </li> </ol> | <ul style="list-style-type: none"> <li>▪ Gimbal in depth overview</li> <li>▪ PID overview</li> <li>▪ Flight Controller GUI</li> </ul> <ol style="list-style-type: none"> <li>6. Flying for a client           <ul style="list-style-type: none"> <li>▪ What is looks like to work with a client</li> <li>▪ Safety</li> <li>▪ Aircraft limitations</li> <li>▪ Weather</li> <li>▪ Mission Planning</li> <li>▪ Pre-Flight checklist</li> <li>▪ Video/FPV</li> <li>▪ Automation</li> <li>▪ Dealing with emergencies</li> <li>▪ Post-Mission Procedures</li> </ul> </li> <li>7. Vortex Certification</li> <li>8. Wrap up</li> </ol> |
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