PHOTOGRAMMETRY

Syllabus

Couse provided by Vertical Master and in compliance with:

COMMISSION IMPLEMENTING REGULATION (EU) 2019/947 / EASA

Open and specific category operations

Certified Institut

Duration: 2 days (14 hours)

Schedule: 9:30am – 17:30pm

Prerequisites: Discovery

Course Objective:

- Understand the principle and basics of photogrammetry
- To know the commercial applications around photogrammetry
- Carry out a complete photogrammetry project
    - Plan
    - Perform
    - Evaluate

Syllabus :

Chapiter	Topic	Description
1.	Basic Principles	• History of photogrammetry • The basics of photogrammetry • Principles (point cloud, mesh, ...) • Georeferencing and coordination systems • Business Applications • Exercise 1: Practical work (data capture + transfer)
2.	Flight planning and preparation	• Legal framework, restrictions • Pre-analysis of the mission • Equipment selection • Mapping application selection • Flight planning • Safety • Exercise 2: flight preparation
3.	Image Capture	• Ground Control Points (GCP) • Choice of take-off point • Information, authorizations • Preparation of the UAV • Flight • Checks after landing • Follow-up flight checks
4.	Image processing	• Restitution of images • Setting up the project • GCP Marking • Altitude curves • Mixing • Volume Calculations