



# THERMOGRAPHY

## Syllabus

*Course 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:**

- Acquire basic knowledge in thermography
- Basic knowledge of aerial thermographic image capture
- Overview of equipment, market and applications required
- Basic knowledge of the interpretation of thermographic data

**Syllabus :**

Chapter	Topic	Description
1.	Basic Principles	<ul style="list-style-type: none"><li>• What is thermography?</li><li>• Aerial thermography</li><li>• False colors of the image</li><li>• Thermal Radiation - Wavelength Range</li><li>• Remote thermography</li><li>• Emissivity, reflection and transmission</li><li>• Image resolution and flight altitude</li></ul>
2.	Flight planning and preparation	<ul style="list-style-type: none"><li>• Thermography of buildings</li><li>• Thermographic inspection : Roofs</li><li>• 3D building thermography</li></ul>
3.	Equipment	<ul style="list-style-type: none"><li>• Market Overview</li><li>• FLIR Camera Specifications</li><li>• Image resolution</li><li>• Temperature sensitivity (NETD)</li><li>• Sensor calibration</li><li>• Equipment for beginners or professionals?</li><li>• Practice Part I</li></ul>
4.	Flight operation	<ul style="list-style-type: none"><li>• Legal framework of an operation</li><li>• Flight planning</li><li>• Possible restrictions</li><li>• Meteorological conditions</li><li>• Practice Part II</li></ul>