

DRONES

Module 2 – Drone regulation

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Malta LTTA

Information for

DRONES Erasmus+ Project

DRONES MALTA LTTA

24th - 26th April 2023

Outline

- Unit 1: European regulation
- Unit 2: Basic rules to flight safely
- Unit 3: The categories of drone

Presentation and objectives of the module

This module can seem to be really heavy and not the funniest but it is important to have a safe flight and avoid dangerous situations.

Disclaimer: This module won't tackle the national regulations, only European ones.

Objectives:

- To understand the importance of regulations and the potential threats/risks of using drones.
- To learn the rules to respect and use the drone safely.
- To know how to differentiate drone categories.



Outcomes of the module

Skills

- Fly safely avoiding dangerous situations
- Use your drone correctly according to the environment you are in
- Identify your environment and recognize the threats



Knowledge

- Explain the main European regulations
- Implement the rules to fly safely
- Understand whom the regulation protects
- Classify the drone into their correct category
- Understand the main threats and risks.

Attitudes

- Operate administrative procedures
- Compare the different authorizations and categories to choose the one that suits you best

Unit 1 - European regulation

WHY A EUROPEAN REGULATION?

Standardization of all country rules

Increasing safety and privacy

Developing the drone industry for economic development

Importance of the NNA:
National Aviation Authority
(always refer to yours).



Unit 1 - European regulation

New **categories** of drones since the 1st of January 2021.

Drone of more than 250 g: **register** with your National Aviation Authority as a **UAS operator** (no matter how many drones you have).

Operator number valid in all other EASA Member States (put on all your drones).

Mention of your drone **CE class** (C0, C1, C2, C3, C4, C5, C6).

Insurances exist but not mandatory.

Unit 1 - European regulation

Online quiz:

<https://view.genial.ly/6391fffa64e88d00106abe80/interactive-content-basic-quiz>

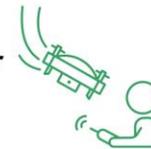


Unit 2 – Basic rules to flight safely



THE SAFETY RULES

- Do not fly over people
- Respect the maximum flight heights
- Never lose sight of your aircraft and do not use it at night
- Do not fly your aircraft over public areas in built-up areas
- Do not fly your aircraft near airfields
- Do not fly over sensitive or protected sites
- Respect the privacy of others
- Check under what conditions you are insured for this activity
- In case of doubt, contact your country's authority



Unit 2 – Basic rules to flight safely

The **certificate** is needed when flying certain type of drones (specific category mostly).

THE CERTIFICATE

HOW TO OBTAIN IT?



Training + Test

It is necessary for UAVs of <250g (or less but equipped with data-registered tools).

CAN IT BE EXPIRED?

Yes, the certificate is only valid for a defined period.

You have to pass it again when it expires.

It is free and you can do it as many times as you need to.

WHAT HAPPEN IF YOU FLY WITHOUT IT?



You will have to pay a fine of 450 €.

If you have passed the test but cannot show your certificate immediately, it is 38 €.

Unit 2 – Basic rules to flight safely

Online quiz:

<https://view.genial.ly/639312aca8319900106fe29f/interactive-content-unit-2quiz>

Unit 3 – Categories of drones

THE DIFFERENT SUB-CATEGORIES OF DRONES OPEN CATEGORY

THE DIFFERENT CLASSES OF OPEN-CATEGORY

CLASS C0	less than 250g	-
CLASS C1	250 to 900g	Equipped with a direct remote identification function
CLASS C2	900g to 4kg	Equipped with a direct remote identification function and a low-speed mode
CLASS C3	4kg to 25kg	Equipped with a direct remote identification function
CLASS C4	4kg to 25kg	Equipped with a direct remote identification function
CLASS C5 and C6	more than 25kg	For specific category

A1

Flights over people tolerated for UAS of less than 900g (Classes C0 and C1) are allowed. However, you must stay away from gatherings of people.

A2

Flights are tolerated up to 30m away from people or 5m with a “low speed” function for drones less than 4kg. (Class C2)

A3

A3: For less than 25 kg drones, you can fly at 150m or more from residential, commercial, industrial, and leisure zones. (Class C3 and C4).



Unit 3 – Categories of drones

Specific category

Moderated risk operations. (mainly for professional use), from 25kg or more.

Starting from **2024** it will be organized by **scenarios**:

- STS-01
- STS-02

Then other **exceptions** such as:

- SORA (Specific Operations Risk Assessment)
- PDRA (Pre-Defined Risk Assessment)
- LUC (Light UAS Operator Certificate).



Unit 3 – Categories of drones

Certified category:

High-risk operations.

For transportation, military use... Not relevant to talk about here.

Unit 3 – Categories of drones

Online quiz:

<https://view.genial.ly/63931abd45353400176af5cc/interactive-content-unit-3quiz>

Conclusions

- European regulation is set up progressively, for economic and safety reasons.
- Safety is really important.
- You must not take drone regulation lightly.
- Always confirm with your NNA in case of doubt.



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www.eumecb.com