



Become a Certified senseFly Operator

Get the knowledge and skills you need to become an **eBee eXpert** with our dedicated senseFly operator certification program. This program will give you the highest level of knowledge and ability on all aspects of senseFly's eBee systems.

The program consists of six modules, which can be completed at your own pace, followed by an online session with a senseFly trainer and a final online exam. Topics covered throughout the course include mission planning, flight characteristics, navigation and more.

Not sure if the program is right for you? **Trial the first four courses for free!**

You may also pick from and purchase individual modules and courses of interest.

The program consists of the following:

6
MODULES

10
HOURS
ONLINE COURSE

1
HOUR WITH AN
INSTRUCTOR

40
QUESTIONS
ONLINE EXAM

The senseFly Academy platform remains open to the user, allowing you to review material or complete course modules about special topics.

1. Introduction


Module 1 consists of two courses. The first course provides a brief history of senseFly, and the second course provides an overview of a typical mapping workflow.


senseFly **1.1. About senseFly**
The origins of senseFly and the company's vision and goals

 **1.2. Workflow Overview**
An overview of a typical senseFly drone mapping workflow, including the different factors that impact the safety and success of a mapping project.

2. Mapping tools


Module 2 covers in detail all the hardware and software of a senseFly system.


 **2.1. senseFly Hardware**
A thorough review of the eBee X drone, along with all the relevant terminology used throughout the program.

 **2.2. senseFly Software**
This course covers the set up of user accounts and installation of the senseFly eMotion flight planning software as well as an explanation of all terminology related to flight planning.


3. Aerial Mapping Principles


This module covers all the fundamentals about UAV technology, including the basics of flight, automation, regulations and photogrammetry.

 **3.1. The eBee in Flight**
Principles of aerodynamics around the eBee platform, including the flight phases (take-off, climb, cruise, descent) as well as structural limitations.

 **3.2. Navigation**
Principles of the eBee's automatic flight via waypoints, including their types and definitions. Differences in height references and their importance to conducting safe operations.

 **3.3. Data Quality & Processing**
Principles of photogrammetry and how the planning and execution of data collection influences data quality.

 **3.4. Accuracy using RTK/PPK**
A course detailing the different methods on how to obtain absolute accuracy and the strengths and limitations unique to each method.

 **3.5. Rules & Regulations**
This course provides general guidance on the current regulations related to the use and operation of senseFly eBee drones.

4. Mapping Project Workflow

This module consists of 4 courses covering each workflow step. As guidance for the student the "mapping project checklist" is being used. The goal is that this checklist becomes a valuable tool for the future operator to which one can come back to, in order to review each necessary step. It's characteristic as a checklist requires a thorough review and teaching of each point in order to make use of it.

The checklist is therefore also divided into the 4 sections the mapping project workflow courses are about:



4.1. Project Planning

Learn how to define project parameters and plan each flight. This includes an assessment of the airspace and regulations as well as any environmental conditions that can influence data capture.



4.2. Preparation

This course covers hardware preparation and general inspection principles, such as performing system integrity checks and packing suitable quantities of spare parts and batteries.



4.3. Data Capture

Since the pre-flight phase is crucial, parts of the preparation phase are being repeated. Followed by the launch, flight and flight monitoring, as well as landing, including immediate post flight procedures. This covers all important details for normal flight operations and conditions. Module 6 will handle in detail contingency plans and troubleshooting.



4.4. Data Processing

Importing the data, data management and storage as well as treatment of the hardware after the flight are being discussed in this module.

Throughout this module an example dataset is used that is available for training and exercises to all students.

5. Camera Specific Mapping Workflow

Learn the workflow for the camera model that best suits your needs and desired application. Students are allowed and encouraged to complete more than one camera course.



senseFly S.O.D.A. 3D



senseFly Aeria X



RedEdge-MX



Parrot Sequoia



senseFly Duet T



senseFly S.O.D.A. &
S.O.D.A Corridor

6. Safeguarding your operations

This three-course module covers flight conditions, the influence of human factors, troubleshooting at each stage as well as maintenance and repair methods.



6.1. Special Flight Conditions & Human Factors

This course covers human and environmental factors, such as altitude, heat, cold, wind and their influence on flight performance and safety.



6.2. In-field & In-flight Troubleshooting

This course covers various contingency plans and options available to operators in the event of abnormal and/or unintended flight operations.



6.3. Maintenance & Repairs

Learn how to perform proper maintenance procedures for the eBee X fixed-wing drone, along with other important integrity checks that are critical to safe and successful missions.

7. Certification

After having completed the 6 online modules, the certification module has to be completed to become a certified senseFly operator.



7.1. Online Instructor Session

Register for one of the online instructor sessions with a senseFly trainer. This 45-minute session is an open forum discussion for up to 6 attendees and shall give you the opportunity to clarify any questions you have.



7.3. Evaluation

To receive your certificate as a certified senseFly operator Upon completing the online modules and senseFly Certified Operators must complete an evaluation exam. A score of 70% or higher is required to pass the exam.

Other Training products

Field Training Day – contact senseFly or your reseller for additional field training.

Custom Training – online, at any senseFly HQ or at your premises.



DISCOVER MORE

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