



UAV AND THE REGULATORY FRAMEWORK

PRACTICAL TRAINING COURSE 2019

INTRODUCTION

Unmanned Aerial Vehicles, or drones, are entering rapidly into the aviation domain. The framework being developed for ensuring a safe introduction is based on a risk based approach. This approach introduces new challenges for both the sector and regulator.

Starting June 2020 regulators will start to receive applications for commercial UAV operations in the open category requiring detailed risk assessments. One of the main challenges in granting approvals to operate will be the NAA's own assessment of the new risks introduced in various operational environments. To properly identify these risks and their mitigation measures, at minimum an understanding of the risk based concept and practical UAV experience will be required.

Together with Drone Flight Academy, Cicionia Aviation Systems has developed a short course to obtain these objectives. The course will be provided in cooperation with the Amsterdam Drone Event and Space 53 in an unique combination of gaining practical drone experience in the same venue as the high level EASA meeting for regulators.

In addition to the theoretical course elements, participants will receive individual practical flight UAV instruction by certified instructors in the main event hall of the Amsterdam Drone Event.

When: 2-4 december 2019

Where:

Amsterdam Rai during Amsterdam Drone Week, look for the DroneFlight Company banners

Sign up at droneflightcompany.com/course



AT THE END OF THIS COURSE THE ATTENDEE WILL:

- Have a detailed knowledge on the recently published EU regulation and AMC material
- Understand the concepts of Risk Assessment techniques (SORA) for UAV's
- Know the limitations and specific operational commercial applications of the off-the-shelf available consumer and commercial UAV
- Know the commercial available solutions to reduce ground and air risks related to UAV operations
- Understand the concepts of U-Space and receive updates on recent test results of UAV operations mixed with manned aviation in The Netherlands

APPLICABLE STANDARDS AND REGULATIONS:

- Emerging EU common rules
- JARUS material

FACTSHEET

TARGET AUDIENCE

This interactive and practical course is specifically designed for:

- Regulatory staff involved in UAV certification
- Inspectors responsible for UAV operational supervision

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DELIVERY METHODS

Methods of delivery for this program include:

- · classroom tuition conducted by UAV Experts
- supported by simple workshop practical type exercises
- indoor flight training with UAV

PREREQUISITES

Participants must possess a general knowledge of aviation regulation concepts.

Course days:2-4 December 2019Amsterdam Drone Week:4-6 December 2019

COURSE ELEMENTS

This program consists of the following components:

- Appreciation of EU UAV Regulations and AMC material
- Application of SORA concepts
- Gaining practical UAV operational experience
- Integration of manned and unmanned aviation best practices



PARTICIPANTS' INVESTMENT

Time:	2 days theoretical training, practical flight training during 3rd day
	at Amsterdam Drone Week.
Course fee:	€ 1500,- excl. VAT (21%). Course fee includes entrance to the Amsterdam Drone Week and access to the EASA high level
	meeting (valued at €900).

INSTRUCTORS

The training course will be delivered by instructors that are considered leading experts in their respective field. Some instructors have relevant manned aviation experience including NAA rulemaking while others are experienced UAV operators. Course participants will interact with experts with more then 30 years aviation and UAV experience.

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COURSE SPECIFICATION

MODERATOR: MR. W. OVAA

DAY 1 MONDAY 2 DEC 2019 09:30 - 10:00 ROUND TABLE: INTRODUCTION Mr. W. Ovaa - Ciconia Aviation Services 09:30 - 10:00 MODULE 1: STATUS OF EASA AND JARUS RULEMAKING • Update on implementation of EASA regulations and AMC material • Impact assessment for NAA's approval process

12:00 - 13:00 **LUNCHBREAK**

13:00 - 15:30

MODULE 2: THE THEORY OF SORA SPECIFIC OPERATIONS RISK ASSESSMENT METHODO-LOGY EXPLAINED

- Standard Scenario's
- Requirements for the UAV operator on SORA
- Challenges for the regulator when assessing SORA results

15:30 - 15:45 **BREAK**

15:45 - 17:30

MODULE 2: THE PRACTICE OF SORA (WORKSHOP)

Gaining experience in working with the SORA methodology

DAY 2

09:30 - 12:00

MODULE 3: UAV OPERATIONS EXPLAINED • An inside look in professional UAV

Inspection and Mapping operationRisks associated with UAV commercial

TUESDAY

12:00 - 13:00 LUNCHBREAK

13:00 - 15:30

MODULE 4: DRONE DETECTION

operation

- Detailed look on drone detection options available
- Practical demonstration of detection equipment for airports and smart cities

15:30 - 15:45 **BREAK**

15:45 - 17:30

MODULE 4: INTEGRATION OF UAV IN MANNED AVIATION

- Challenges associated with UAV testing
- Practical solutions for Smart cities and existing aerodromes

DAY 3

09:30 - 12:00 MODULE 5: U-SPACE AND VUTURA SESAR AND UAV

WEDNESDAY

- Briefing on real-life demonstration EU
 project VUTURA
- Lessons learned

12:00 - 13:00 LUNCHBREAK

3:00 - 13:15	CONCLUSION: RECAP OF TRAINING
):15 - 15:15	PRACTICAL FLIGHT TRAINING (GROUP 1) Indoor Flight Training with various rotor wing UAV systems by certified instructors

15:30 - 15:45 **BREAK**

15:30 - 17:30

PRACTICAL FLIGHT TRAINING (GROUP 2) Indoor Flight Training with various rotor wing UAV systems by certified instructors



DRONEFLIGHT

FOR MORE INFORMATION:

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SIGN UP AT DRONEFLIGHTCOMPANY.COM/COURSE