„Remotely Piloted Aircraft (RPA) Operation“ combined training

Eesti Lennuakadeemia
Estonian Aviation Academy

Time of Training	21-29 September 2020
Place of Training	Theoretical part in e-learning environment Moodle and practical part as agreed between participants and Instructor
Schedule for Training	Theoretical part 21-29 September 2020 Practical part 29 September 2020
Teaching Methods	Online lectures, individual work with theoretical materials, self-evaluation tests, briefing and debriefing with an Instuctor, various supervised practical tasks, self-analyse
Language of Instruction	Estonian
Instructors	**Andres Moks**, Development Specialist at Estonian Aviation Academy as well as Lecturer for following subject courses: Introduction to RPAS, RPA Operation and Mission Planning, UAV Fabrication and Control and Construction of an Unmanned Aerial Vehicle **Tõnis Jürimäe**, Specialist at Estonian Aviation Academy’s Air Traffic Services Training department as well as Lecturer for following subject courses: Introduction to Air Traffic Management, RPA Operation and Mission Planning
Base of course syllabus	Air Traffic Services curriculum (*EHIS register code 2282*) as well as regulations set by regional Civil Aviation Authority (Swedish Transport Agency’s Regulations (TSFS 2017:110) on Unmanned Aircraft)
Volume of Training	31 hrs (incl individual work 26 hrs and contact studies 5 hrs)
Curriculum group	Transport services (1041)
Price of Training	*As agreed*
Target Group	Remotely piloted aircraft pilots operating multirotor aircraft in VLOS and BVLOS mode for several commercial purposes
Size of Training Group	Max 4 delegates
Aim of Training	The aim of the combined training is to: • Provide participants with theoretical knowledge in order to operate aircraft safely; • Demonstrate the multirotor aircraft and its functions, such as flight control surfaces and radio; • Demonstrate what will happen if the radio contact with the aircraft fails (failsafe)
Topics of Training	**Theoretical part:** • Regulations • UAV build and systems • Aerodynamics • Weather • Basics of air traffic • Procedures and risk mitigation

	Practical part (tasks to be carried out): • Take off and climb to eyelevel; • Hover with the nose against the wind for 15 seconds; • Fly in a 360º circle, the pilot in the centre and the nose pointing outwards; • Fly in a 360º circle, the pilot in the centre and the nose pointing inwards; • Fly in the shape of one 360º circle to the left and one to the right, of approximately 10 m diameter and in front of the pilot; • Fly in an eight shape, at 10-20 m height and at a distance of about 50 m; • General flying for 1 minute.
Learning Outcomes	After the training, participants shall: • Have an overview about RPA regulations; • Know the general principles of UAV build and systems; • Have the basic aerodynamics; • Be able to evaluate and consider environmental differences, incl different weather conditions and its impacts on piloting; • Know RPA operational procedures; • Have skills to evaluate emergency situations and risks while RPA operating
Study materials	Study materials in e-learning environment Moodle
Passing the Training	To pass this combined training, participants: 1) must work through online learning materials 2) pass all tests in e-learning environment Moodle Tests can be taken for a twice (in case the first attempt fails). Positive result requires at least 60% of correct answers. 3) performing all practical tasks with Instructor's positive assessment
Certificate	Eesti Lennuakadeemia täienduskoolituse läbimist kinnitav tunnistus (*Certificate of Course Completion*)
Additional Information	Karine Mandel, karine.mandel@eava.ee, +372 7 448 121