



SAFEDrone In-Classroom Drone Curriculum Offered From STEMPilot.com

SAFEDrone operation in 6-12 grade classroom

WATERBURY, CT, UNITED STATES, May 14, 2019 /EINPresswire.com/ -- SAFEDrone In-Classroom Drone Curriculum Offered From STEMPilot.com

WATERBURY, Conn., May 14, 2019 – “This classroom curriculum is 100% about safety and proficiency,” stated STEMPilot® Creator and Owner Jay LeBoff. “In their classrooms, middle and high school students nationwide can learn how to safely operate drones. The STEMPilot SAFEDrone™ simulator and curriculum is designed to offer proficiency training that promotes safety in class operation by only ‘simulator certified pilots’. Only students who have been assessed as “qualified and capable” in the drone simulator operations would be permitted to fly drones. Safety is our foremost concern.

“Building self-esteem and igniting future careers is an important goal of this curriculum,” stated LeBoff. “Students receive training using the STEMPilot SAFEDrone simulation software that can be installed in classroom PCs, STEMPilot Edustations or Pilot Pro Flight simulators. Once high school students successfully complete their SAFEDrone training, they may be eligible to enroll in STEMPilot’s one-semester course to prepare for the FAA Drone Pilot License written knowledge exam.”

Designed for indoor flight only, each SAFEDrone Kit includes: SAFEDrone curriculum book, lesson plan aligned with NGSS, K-12 curriculum book, K-12 lesson plan aligned with NGSS, SAFEDrone simulation software and wireless controller, five guarded prop quad-copter drones with controllers and spare props, sixteen Bulls eye tabletop landing targets, five standing foam-padded drone flight obstacles in varying shapes, sizes and colors, one multi-colored Vertical Hold Post, four spare drone batteries and chargers, thirty-six pairs of safety glasses, and a flash drive with digital copies of curriculum documents. Additional simulator software and controllers are available from STEMPilot.

Students form Flight Crews of three and work together in all activities promoting “Collaborative Learning”.

SAFEDrone Kits offer three units of instruction:

Unit 1 - Terms: Students are introduced to aviation terms, basic physics of flight, concepts of motion, the anatomy of quad-copters and airplanes, and how the controls operate the quad-copter. Students watch short videos of each learning task before attempting the training activity in the simulator.

Unit 2 - Simulation: Introduces students to the SAFEDrone simulator and how to operate the controller, how to execute multiple altitudes holds, how to cover patterns and diagonals and execute safe rated landings. Final training requires the student to pick up stars in 3-dimensional space using pitch, roll, and yaw while maneuvering through different levels, around and above obstacles and through loopholes. If desired, a competition can follow. Students who successfully complete this simulation training are awarded a “Certificate of Achievement in Drone Simulation” and “Certified Pilot Wings” to move onto an actual flight.

Unit 3 - Drone Pilotage: Students learn to fly SAFEDrone guarded-prop quad-copters by repeating

the drone simulation tasks. They fly altitude hold and land, cover patterns, move diagonally and land accurately. "Classrooms are arranged into a fly and a no-fly zone. All students must wear safety glasses and remain in the No-Fly Zone" explained LeBoff. "Each Flight crew of three take turns as Pilot in Command; Spotter/Co-Pilot and Navigator/Self-Assessor.

"Students practice altitude hold and land using the multi-colored altitude pole and landing Bullseye, flying the quad-copter just as they did in the simulator. Setting the classroom up with tables and landing targets, each crew completes crossing patterns and rated landing. After successfully completing these maneuvers, students can create an obstacle course using SAFEDrone's stand-alone multi-colored shaped obstacles.

"Each crew completes an Activity Flight Assessment-centered on how they flew the drone and if they overcame the course obstacles, the skill level of the pilot, points received for each rated landing and other accomplishments recorded.

"Students learn the 'how' and 'why' of lift and how drones operate in six degrees of freedom, the different 'flight surfaces', how to execute flight operations including safe and effective takeoff, yaw, roll, hovering, landing and maneuvering in a 3D space. All of these tasks require concentration, skill, and an understanding of how all of these forces are working together." STEMPilot's SAFEDrone kit is \$2,995.00 and can be used year after year. Additional simulation seats with controllers, additional drones and supplies can be purchased.

To learn more, visit www.STEMPilot.com, email to sales@stempilot.com or call 203-527-5747 STEMPilot Inc. at 20 South Commons Road in Waterbury, Connecticut.

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