



PRECISION DRONE
PILOTING PROGRAM



**COURSE
OVERVIEW**

DRONELEGENDS.COM

Course Overview

Meet **FPV Initiator**, a new precision drone pilot training program from **Drone Legends**. FPV Initiator takes the quick reflexes, sharp decision-making, and thrill of the race to a whole new level, all while building in the academic alignment educators have come to expect from Drone Legends programs.

Ready-to-run out of the box, FPV Initiator has everything you need to put your middle school, high school, and college students on a track toward real-world, precision drone operations and the ultra-cool world of virtual and in-real-life competitive drone racing!

Designed for the novice teacher and student, information is presented through engaging lesson modules that make it easy to teach and learn. We've done the heavy lifting for you so you can focus on what's important – **coaching and preparing your students for success.**

What is FPV?

FPV stands for **First-Person View**. When piloting the drone, students wear VR goggles, allowing them to see from the drone's perspective. Unlike traditional drones, which are piloted from the pilot's ground perspective, FPV offers a viewpoint directly from the drone. This provides an exceptionally immersive experience, leading to more precise flying and heightened accuracy. The outcome is faster reactions and a heightened awareness of the surroundings. That's why we call it "precision drone pilot training."



Dive Into Precision Piloting

Practicing FPV flight in a simulator lets students safely crash and recover an unlimited number of times in a virtual environment. This way, they learn the basic controls of an FPV drone while developing the muscle memory their hands require for precision flight.

Our immersive microdrone simulator delivers a truly authentic FPV flight experience, allowing students to hone their skills in hyper-realistic environments.

Course Overview

The **12-lesson FPV Initiator program** is designed to introduce students and teachers to the exciting world of flying FPV drones. Students will learn the fundamentals of drone safety, flight mechanics, and radio control. They will also gain hands-on experience repairing and flying their own FPV drone.

Module 1 - Pilot's Prelude: Mastering FPV Drone Basics and Gear Insights

Module 2 - Dialing in Control: A Deep Dive into Your RC Setup & Configuration

Module 3 - Unleash Your Potential: Simulator Training for Superior Skill Development

Module 4 - Batteries Included: Tips and Tricks for Safe and Effective Use

Module 5 - Ready, Set, Goggles Up: Setting Up Your FPV Goggles for the Ultimate Flying Adventure

Module 6 - Meet Your Micro: Understanding Your Drone's Components and Functionality

Module 7 - Betaflight Basics: Customizing Your Drone's Flight Settings

Module 8 - From Crash to Fix: Learning the Fundamentals of Micro Drone Repair

Module 9 - First Flight, New Heights: Experiencing FPV Drone Racing in Real Life

Module 10 - The Art of Precision: Mastering Control and Maneuvering

Module 11 - Breaking Ground: Building Your First FPV Obstacle Course

Module 12 - Mind over Motors: Navigating Nerves in Your Inaugural FPV Heat

Materials Included

**All materials subject to change*

Drones & Drone Accessories

- 4x Orqa FPV. One Race goggles
- 12x Orqa FPV. Ctrl controllers
- 4x Orqa 65mm Micro Drones
- 4x ImmersionRC rapidFIRE receivers
- 4x ImmersionRC Ghost Tx modules
- 4x ImmersionRC SpiroNET antenna bundles
- 24x 380 mAh 1S LiPo batteries
- 16x replacement propellers
- 4x goggle battery chargers
- 4x flight battery chargers with cables
- 4x 4-port USB charging hubs
- 1x LiPo safe storage bag
- 12x USB to USB Type C cables
- 12x microSDHC cards - 16GB
- 4x microSD card readers
- 4x Micro USB cables
- 4x 6-pc mini-screwdriver set
- 2x storage trunks

Course Materials

- 10x mini arch gates
- 6x race flags
- 2x race cubes
- 60x floor indicators
- 1x 1000 ft. measuring wheel
- 4x stopwatches
- 100x USDRA League stickers

FPV Initiator Curriculum

- 1x Coach's Playbook
- 12x Pilot Handbooks
- 1x 12-month access to online curriculum

Training & Support

- Unlimited professional development, live via Zoom
- Customer support

Contact Hours

- **20+ hours** - FPV Initiator includes 12 interactive learning modules, each intended to run for 90 minutes. Modules include a combination of planned activities, video instruction, quizzes, and drills. Hours can be increased through additional time spent in the flight simulator, both in and out of the classroom.

Training & Support

- **Drone Legends LMS:** Cross platform (Mac, PC, Chromebook) browser-based, GDPR-compliant application
- **SkyDive drone flight simulator:** Chromebook and Windows compatible, plus iOS and Android app available for at home practice



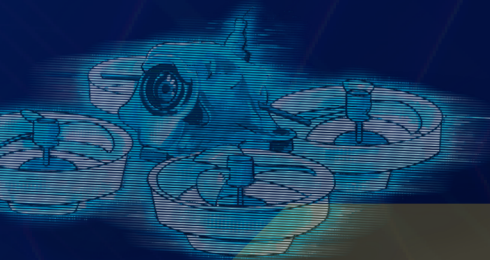
Curricular Alignment

FPV Initiator isn't just about the thrill of drone racing—it's an educational training system designed to equip students with a future-ready skill set.

Aligned with key academic standards, including:

- Career Ready Practices (CRP)
- Common Career Technical Core (CCTC)
- Computer Science Teachers Association (CSTA)
- International Society for Technology in Education (ISTE)
- Next Generation Science Standards (NGSS)
- Social-Emotional Learning (SEL)

Our curriculum ensures that students aren't just having fun—they're mastering skills that will serve them in college, in their careers, and in life. Experience the future of hands-on, experiential learning with FPV Initiator, where **cutting-edge technology meets comprehensive educational development.**



Virtual and In-Real-Life (IRL) Competitions in the Unified Scholastic Drone Racing Association (USDRA)

Coming winter 2024! The USDRA is the first and only hybrid drone racing association created exclusively for students. Our one-of-a-kind league gives you and your students a secure environment in which to compete virtually and IRL in regional and national tournament competitions!

Visit www.usdra.io for updates and exclusive league announcements.



Pricing Options

For pricing, please contact us at:

info@dronelegends.com or (866) 376-6338, option 3

