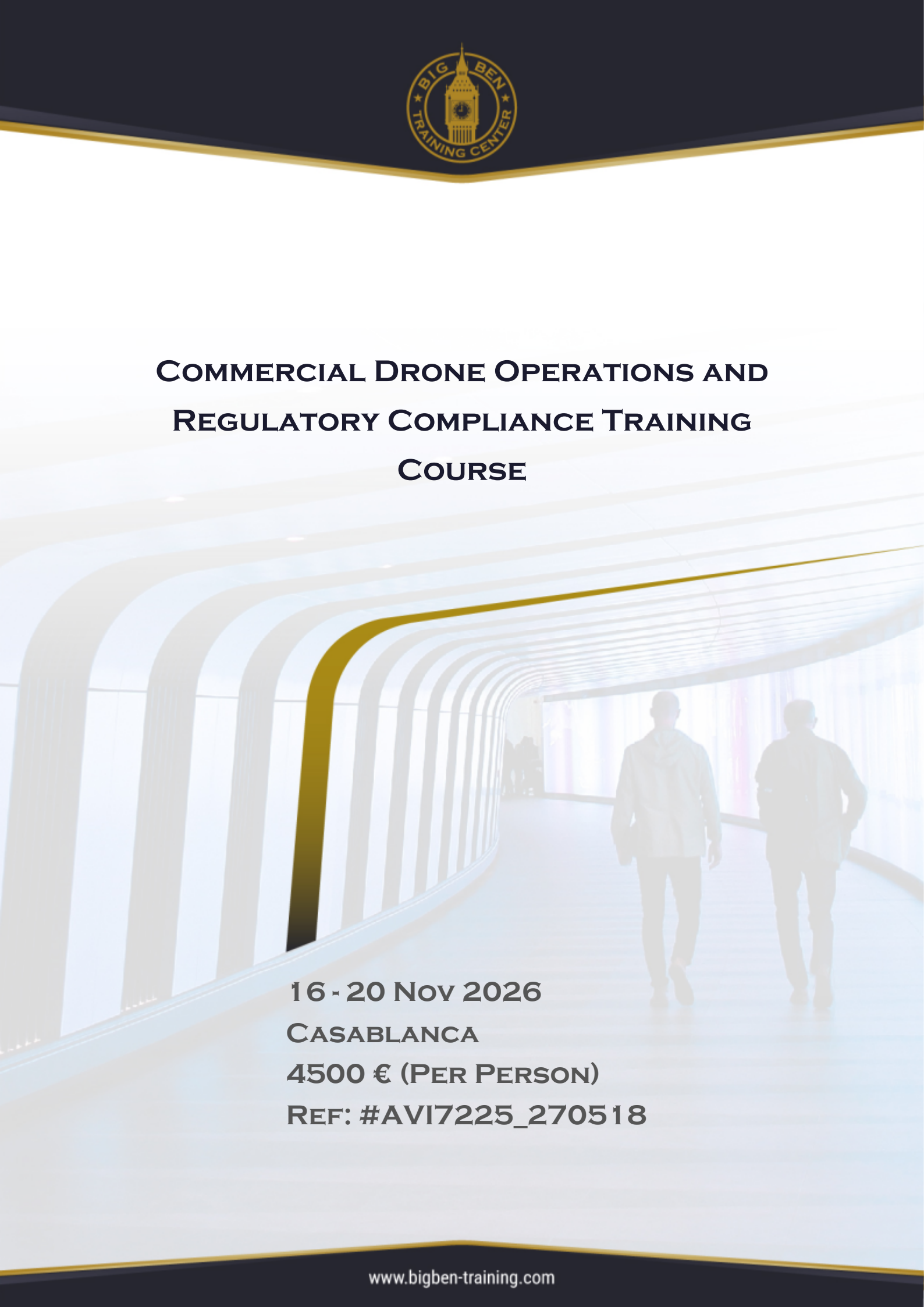
# Commercial Drone Operations and Regulatory Compliance Training Course



16 - 20 Nov 2026

Casablanca

4500 € (Per Person)

Ref: #AVI7225_270518

## Course Introduction / Overview:

The commercial drone industry is experiencing unprecedented growth, transforming sectors from construction and agriculture to public safety and logistics. However, navigating the complex web of aviation regulations, operational safety protocols, and data management requirements is critical for success and legal compliance. This comprehensive program is designed to equip professionals with the essential knowledge and skills to operate Unmanned Aerial Vehicles (UAVs) safely, efficiently, and in full accordance with regulatory frameworks. Drawing on principles discussed by experts like Dr. Alan K. Hobbs on human factors in aviation and concepts outlined in texts such as "Introduction to Unmanned Aircraft Systems", this course provides a holistic understanding of the entire UAV ecosystem. BIG BEN Training Center has developed this curriculum to bridge the gap between theoretical knowledge and practical application, ensuring participants can confidently manage commercial drone operations, from initial flight planning and risk assessment to advanced data acquisition and business integration. This training is your definitive guide to mastering the technical and legal intricacies of the modern drone industry, preparing you to lead and innovate in this dynamic field.

## Target Audience / This training course is suitable for:

- Aspiring and current commercial drone pilots.
- Project managers and operations managers.
- Land surveyors and mapping professionals.
- Construction site managers and engineers.
- Agricultural consultants and specialists.
- Public safety officers and emergency responders.
- Risk and compliance managers.
- Infrastructure inspectors and asset managers.
- Real estate and media professionals.
- Entrepreneurs starting a drone-based business.

## Target Sectors and Industries:

- Construction and Engineering.
- Agriculture and Forestry.
- Oil, Gas, and Renewable Energy.
- Real Estate and Property Management.
- Media, Film, and Entertainment.
- Telecommunications and Utilities.
- Logistics and Transportation.
- Mining and Aggregates.
- Environmental Monitoring and Conservation.
- Governmental agencies and public safety departments.

## Target Organizations Departments:

- Operations and Field Services.
- Surveying and Geospatial Departments.
- Engineering and Inspection.
- Health, Safety, and Environment (HSE).
- Compliance and Legal Departments.
- Research and Development (R&D).
- Security and Surveillance.
- Asset Management and Maintenance.
- Logistics and Supply Chain.
- Corporate Strategy and Innovation.

## Course Offerings:

By the end of this course, the participants will have able to:

- Analyze international and local UAV regulatory frameworks to ensure full operational compliance.
- Develop comprehensive pre-flight checklists and standard operating procedures (SOPs).
- Conduct thorough airspace assessments and create effective flight mission plans.
- Implement robust safety and risk management protocols for diverse operational scenarios.
- Evaluate different UAV platforms and sensor payloads for specific commercial applications.
- Manage the acquisition, processing, and ethical handling of aerial data.
- Understand the requirements for obtaining operational authorizations and waivers.
- Formulate a business plan for a commercial drone service or internal drone program.
- Execute emergency procedures and incident response plans effectively.
- Integrate drone operations seamlessly into existing business workflows.

## Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, interactive, and directly applicable to real-world challenges. This course moves beyond traditional lectures to foster a dynamic learning environment where participants actively engage with the material. The program is built on a foundation of expert-led instruction, interactive presentations, and detailed analysis of current regulations. A significant portion of the training is dedicated to practical case studies from various industries, allowing participants to dissect complex operational scenarios and regulatory challenges. Group discussions and collaborative problem-solving exercises will be used to explore topics like risk assessment, mission planning, and ethical considerations. Participants will work in teams to develop mock operational plans and compliance strategies, receiving constructive feedback from instructors. This hands-on, participatory approach ensures that attendees not only grasp the theoretical concepts but also develop the critical thinking and practical skills needed to manage successful and compliant commercial drone operations.

## Course Agenda (Course Units):

### Unit One Introduction to Unmanned Aircraft Systems (UAS)

- Fundamentals of UAV technology and terminology.
- Classification of drones by size, capability, and function.
- Key components of a UAS: aircraft, ground control station, and data link.
- Principles of aerodynamics and flight dynamics for multirotor and fixed-wing UAVs.
- Understanding propulsion, power, and navigation systems.
- Overview of the global commercial drone market and industry trends.
- The role of the remote pilot in command (RPIC) and crew.

### Unit Two UAV Flight Operations and Mission Planning

- Developing Standard Operating Procedures (SOPs).
- Comprehensive pre-flight, in-flight, and post-flight inspection protocols.
- Understanding national and international airspace classifications.
- Utilizing aviation charts and software for mission planning.
- Effects of weather and microclimates on UAV performance.
- Battery management and calculating flight endurance.
- Site assessment and establishing a safe operational area.

### Unit Three Regulatory Frameworks and Legal Compliance

- Deep dive into national aviation authority regulations (e.g., FAA, EASA concepts).
- Registration, certification, and pilot licensing requirements.
- Rules for Visual Line of Sight (VLOS) and Beyond Visual Line of Sight (BVLOS) operations.
- Understanding operational limitations, waivers, and authorizations.
- Legal and ethical considerations regarding privacy and data protection.
- Drone insurance, liability, and accident reporting procedures.
- Staying current with evolving drone laws and regulations.

## Unit Four Commercial Applications and Payload Management

- UAV use cases in surveying, mapping, and photogrammetry.
- Applications in infrastructure inspection and asset management.
- Drones in precision agriculture and environmental monitoring.
- Public safety, search and rescue, and emergency response operations.
- Understanding different sensor types: RGB, thermal, multispectral, and LiDAR.
- Payload integration, calibration, and operational best practices.
- Fundamentals of aerial data acquisition and quality control.

## Unit Five Risk Management and Drone Program Integration

- Conducting comprehensive operational risk assessments (e.g., SORA methodology).
- Identifying and mitigating human, technical, and environmental hazards.
- Developing robust emergency response and contingency plans.
- Best practices for UAV maintenance, repairs, and record-keeping.
- Implementing and managing a corporate drone program.
- Calculating return on investment (ROI) for drone operations.
- Future trends: drone swarms, automation, and urban air mobility.

# FAQ:

### Qualifications required for registering to this course?

There are no requirements.

### How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

## Something to think about:

As Beyond Visual Line of Sight (BVLOS) operations become more common, what are the primary ethical and societal challenges that regulators and operators must address beyond purely technical safety concerns?

## What unique qualities does this course offer compared to other courses?

This course distinguishes itself by offering a holistic and strategic perspective on commercial drone operations, moving far beyond basic pilot training. While many programs focus solely on the mechanics of flying, this curriculum integrates technical proficiency with an in-depth mastery of the complex regulatory, legal, and business landscapes. We emphasize the development of a professional mindset centered on safety, compliance, and risk management, which are the cornerstones of any sustainable drone program. The content is structured to build strategic competence, teaching participants not just how to operate a drone, but how to think like an aviation manager. By analyzing diverse case studies and exploring advanced concepts like drone program integration and operational risk assessment methodologies, the course provides a level of strategic insight rarely found elsewhere. It prepares professionals to lead, innovate, and make informed decisions that align with both regulatory mandates and organizational objectives, ensuring they are equipped for the future of the unmanned aviation industry.