UAV and Drone Operations Management Training Course

10 – 14 January 2027
Riyadh - KAFD district five-star



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Introduction:

The UAV and Drone Operations Management Training Course is a one-week course for flight operations managers, enterprise aviation safety officers, geospatial surveying coordinators, and drone programme leads, culminating in a verified UAS Operational Safety and Compliance Manual. Inconsistent airspace compliance, fragmented multi-agency filing procedures, and undocumented flight line procedures expose institutional drone programmes to costly regulatory groundings, severe civil penalties, and catastrophic physical ground hazards. Nominees already oversee basic visual line of sight missions, verify routine equipment inventories, and log flight records, with instruction delivered through realistic operational simulation. CoreConcept Training Center delivers this UAV and Drone Operations Management Training Course to embed systematic aviation governance, ISO-aligned standard operating procedures, and rigorous operational control across industrial flight operations.

Course Objectives:

- Structure an operational safety manual aligned with ISO 21384-3 commercial UAS operational procedures and aviation safety protocols
- Navigate civil aviation authority registration thresholds, categorisation criteria, and permit lead times across commercial operations
- Configure Direct Remote Identification and Network Remote Identification parameters to comply with GACAR Part 107 Edition 5
- Establish cross-agency clearance workflows integrating civil aviation permits, customs equipment approvals, and municipal event coordination
- Implement aeronautical decision-making, crew resource management, and unaided visual line of sight monitoring protocols
- Design rigorous scheduled maintenance logs, battery cycle tracking systems, and emergency contingency response plans

Target Audience:

- Flight operations managers responsible for establishing standard operating procedures and flight crew governance across commercial deployments
- Enterprise aviation safety officers responsible for evaluating ground risk, enforcing aerodrome perimeter safety, and conducting flight audits
- Geospatial surveying coordinators responsible for managing airborne sensor collection, flight authorizations, and aerial survey data workflows
- Industrial inspection team leads responsible for tasking remote pilots, reviewing site risk assessments, and tracking asset airworthiness
- Drone fleet maintenance managers responsible for overseeing airframe maintenance schedules, component lifecycles, and equipment compliance logs

Course Outline:

Day 1: Aviation Regulations, Operating Categories, and Registration Frameworks

- ISO 21384-3 Scope Standardising Commercial UAS Operations
- GACAR Part 107 Operating Categories Differentiating Open And Specific Operations
- Registration Thresholds Governing Drones Over 250 Grams And Sensor Payloads
- GACAR Part 48 Frameworks Regulating Three-Year Commercial Aircraft Registration
- Aviation Security Clearances Screening Commercial Operators And Corporate Registrations

Day 2: Airspace Management, Cross-Agency Approvals, and Remote Identification

- GACAR Part 171 Special Use Airspace Interfacing Geo-Awareness Systems
- Controlled Airspace Procedures Managing 120-Metre Maximum Operating Altitudes
- Permit Filing Workflows Scheduling Four-Week Standard And Eight-Week Special Operations
- Cross-Agency Clearances Coordinating Customs Equipment Approvals And Event Authorisations
- GACAR Part 107 Edition 5 Configuring Direct And Network Remote Identification

Day 3: Standard Operating Procedures, Pre-Flight Controls, and Human Factors

- ISO 21384-3 Operational Procedures Documenting Flight Planning Manuals
- GACAR Part 107 Section 37 Enforcing Unaided Visual Line Of Sight
- Pre-Flight Maintenance Checklists Verifying Control Links And Sensor Payloads
- Aeronautical Decision-Making Protocols Managing Crew Resource Management
- Sensor Data Collection Governance Complying With National Privacy Regulations

Day 4: Fleet Maintenance Protocols, Emergency Response, and Airworthiness

- ISO 21384-3 Log Protocols Recording Maintenance And Battery Lifecycle History
- Loss-Of-Control Link Procedures Mitigating Automated Return-To-Home Divergence
- Ground Risk Buffers Calculating 30-Metre Lateral Separation From Bystanders
- Flyaway Containment Protocols Executing Emergency Flight Termination Systems
- Airworthiness Inspection Regimes Managing Drone Structural Integrity Audits

Day 5: Operational Simulation, Mission Verification, and Compliance Dossier Assembly

- Simulated Flight Authorization Filing Advance Commercial Flight Permits
- Simulated Airspace Conflict Scenarios Executing Real-Time Avoidance Protocols
- Simulated Remote Identification Streaming Auditing Direct Remote ID Telemetry
- Simulated Emergency Forced Landing Drills Managing Power Loss Contingencies
- UAS Operational Safety And Compliance Manual Completing Institutional Operational Frameworks

Skills You Will Gain:

- Commercial UAS Regulatory Categorisation
- ISO 21384-3 Operational Procedure Design
- Airspace Geo-Awareness Configuration
- Multi-Agency Flight Permit Filing
- Direct and Network Remote ID Setup
- Crew Resource Management Implementation
- UAS Maintenance Log Auditing
- Emergency Loss-of-Link Planning

Why Attend This Course:

- Deliver a complete UAS Operational Safety and Compliance Manual directly to executive leadership to formalise institutional flight governance.
- Decide operational go and no-go flight authorisations with confidence based on airspace classifications, ground risk buffers, and sensor privacy clearances.
- Avoid project delivery halts, severe civil fines, and border clearance impoundments caused by missing flight permits or unverified equipment registrations.
- Transfer structured pre-flight briefing routines, emergency loss-of-link responses, and standardized maintenance logging practices to field flight crews.

Conclusion:

Following this course, the organisation integrates the UAS Operational Safety and Compliance Manual into routine project workflows to govern all enterprise drone deployments. Flight operations directors, aviation safety managers, and project executives consult this manual to authorize flight missions, validate aircrew operational checklists, and verify multi-agency statutory clearances prior to site mobilisation. Within thirty days of deployment, the operational safety committee should review flight incident logs, remote identification compliance metrics, and routine airworthiness maintenance audits to confirm that enterprise drone operations perform consistently within rigorous institutional safety tolerances.

Frequently Asked Questions FAQ:

Which roles should an organisation nominate for the UAV and Drone Operations Management Training Course?

Flight operations managers, enterprise safety officers, geospatial survey leads, and drone maintenance managers should attend. Nominees manage multi-rotor or fixed-wing fleets, supervise remote flight crews, oversee aerial data capture, or hold responsibility for industrial site safety, perimeter surveillance, and aviation regulatory compliance.

What should nominees already do at work before attending the UAV and Drone Operations Management Training Course?

Nominees should already oversee standard visual line of sight flight tasks, review basic job-safety assessments, coordinate field data capture, or maintain inventory and maintenance logs for unmanned systems. Familiarity with basic aeronautical terminology and flight line logistics ensures immediate mastery of advanced governance models.

What does the organisation receive when the participant returns from the UAV and Drone Operations Management Training Course?

The organisation receives a complete UAS Operational Safety and Compliance Manual. This operational manual includes standardized pre-flight checklists, multi-agency regulatory filing roadmaps, remote identification data broadcast configurations, emergency contingency procedures, and equipment maintenance tracking logs ready for operational deployment.

Which standards and frameworks does the UAV and Drone Operations Management Training Course follow?

The course aligns with ISO 21384-3 international operational procedures for unmanned aircraft systems. It incorporates the operational requirements of GACAR Part 107 Edition 5, GACAR Part 101, GACAR Part 48 registration rules, GACAR Part 171 airspace limitations, and FAA Part 107 aeronautical benchmarks.