

UAV & Drone Operations Management Training Course

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Overview

The UAV & Drone Operations Management Training Course is a one-week course for flight operations managers, chief remote pilots, and safety leads who leave with an operational drone management dossier to govern enterprise unmanned aviation activities. Fragmented air risk evaluations, non-standard maintenance logging, and uncoordinated airspace integration expose corporate flight departments to ground hazards and regulatory groundings. This course resolves operational exposures through systematic application of JARUS SORA v2.5 risk assessments, ICAO Annex 19 safety management systems, and ISO/TR 23629-1 traffic architecture. Agile Leaders Training Center delivers the UAV & Drone Operations Management Training Course.

Who Should Attend

- Operations managers establishing enterprise unmanned aerial system programs and multi-agency flight authorization workflows.
- Chief remote pilots enforcing crew resource management, operating thresholds, and standard operating procedures.
- Aviation safety officers structuring safety management systems and internal flight auditing protocols.
- Fleet maintenance supervisors managing unmanned airframe airworthiness, battery health records, and maintenance logs.
- Survey and inspection directors coordinating specialized aerial data acquisition workflows across critical infrastructure.

The course assumes participants actively manage industrial flight operations or operational assets, and it leaves out entry-level stick-and-rudder maneuvering and hobbyist piloting.

Departments and Industries

The course draws operational cases from infrastructure management and resources sectors.

- Linear infrastructure and utility inspection divisions
- Energy transmission and oil and gas processing facilities
- Large-scale capital project construction and site monitoring
- Civil survey, mapping, and geospatial engineering departments
- Industrial safety and emergency management operations

Learning Objectives

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

- Apply JARUS SORA v2.5 methodologies to classify ground and air risks for complex missions.
- Build an ICAO Annex 19 compliant Safety Management System tailored to unmanned flight operations.
- Evaluate command and control link reliability using ICAO Annex 6 RPAS baselines.
- Diagnose airframe airworthiness degradation through centralized telemetry logs and battery duty cycles.
- Analyze multi-agency clearance pathways across civil aviation and national border authorities.
- Formulate an operational drone management dossier governing multi-crew industrial flight profiles.

Course Agenda

Day 1: Unmanned Aviation Governance and Regulatory Architectures

- Global operational frameworks under ICAO Annex 6 Part IV RPAS regulations
- ICAO Model UAS Regulations operational categorizations and weight thresholds
- Baseline operating limitations and 120-meter ceiling management in uncontrolled airspace
- Mandatory registration thresholds and identification marking systems for commercial payloads
- Civil aviation operating authorization workflows and agency clearance timescales

Day 2: Operational Safety Management and Airspace Integration

- ICAO Annex 19 Safety Management Systems design for unmanned aircraft fleets
- UAS Traffic Management functional architectures under ISO/TR 23629-1
- Emergency response plan development for command and control link disruptions
- Crew resource management and communication protocols for distributed flight teams
- Digital geofencing parameters and real-time transponder tracking coordination

Day 3: Ground and Air Risk Evaluation Methodologies

- JARUS SORA v2.5 ten-step operational safety risk evaluation workflows
- Intrinsic Ground Risk Class mitigation through kinetic energy reduction and buffer zones
- Air Risk Class determination and strategic airspace deconfliction mechanisms
- Specific Assurance and Integrity Levels SAIL I–VI and associated containment standards
- Operational Safety Objectives OSOs evidence assembly for specific category profiles

Day 4: Fleet Airworthiness, Maintenance, and Asset Integrity

- Centralized flight logging and telemetry analysis using digital fleet management tools
- Scheduled maintenance intervals, structural inspections, and airworthiness tracking
- Lithium-polymer battery health degradation monitoring and charge-cycle logging protocols
- Sensor payload calibration, mounting integrity, and data protection governance
- Vendor compliance evaluation aligning with ISO 9001:2015 and ISO 45001:2018 standards

Day 5: Operational Dossier Formulation and Flight Assurance Practice

- Suggested activity: Audit a multi-site mission plan against JARUS SORA v2.5 risk criteria
- Suggested activity: Model an enterprise SMS incident investigation matrix for a lost-link event
- Suggested activity: Formulate an airworthiness maintenance ledger reconciling fleet telemetry data
- Suggested activity: Draft an inter-agency flight authorization package for complex corridor operations
- Capstone exercise: Assemble an integrated operational drone management dossier for critical infrastructure deployment

Practical Exercises

The course uses operational telemetry data, risk assessment scorecards, and fleet maintenance records.

- Suggested activity: Determine Specific Assurance and Integrity Levels for an industrial BVLOS flight corridor.
- Suggested activity: Structure an unmanned aviation Safety Management System gap analysis matrix.
- Suggested activity: Reconcile airframe flight hours against component lifecycles using digital fleet records.
- Capstone exercise: Formulate an operational drone management dossier resolving regulatory and safety constraints.

FAQs

Who suits the UAV & Drone Operations Management Training Course?

The UAV & Drone Operations Management Training Course suits operations managers, chief pilots, and safety directors leading enterprise flight operations. The course assumes active responsibility for commercial drone programs, leaving out basic consumer drone flying and recreational maneuvering.

How does the UAV & Drone Operations Management Training Course differ from basic pilot training?

Basic pilot training teaches manual flight stick control and fundamental visual rules. The UAV & Drone Operations Management Training Course focuses on organizational governance, JARUS SORA risk modeling, fleet airworthiness tracking, and multi-agency flight clearances.

Which standards govern the UAV & Drone Operations Management Training Course?

The UAV & Drone Operations Management Training Course applies international aviation standards including ICAO Annex 6 Part IV, ICAO Annex 19 safety management principles, ISO/TR 23629-1 traffic architectures, and JARUS SORA v2.5 risk assessment methodologies.

How does the UAV & Drone Operations Management Training Course address flight approvals?

The UAV & Drone Operations Management Training Course analyzes multi-agency approval pathways, administrative lead times, and evidence required for complex operations in controlled or sensitive airspaces.

Conclusion

Participants return to their organizations equipped with a practical operational drone management dossier to govern enterprise flight activities. This standardized asset improves ground and air risk control while streamlining regulatory authorization timelines. Unmanned aviation teams immediately achieve dependable fleet airworthiness oversight and robust alignment with international aviation safety frameworks.

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