



SAFE SKIES.
**SUSTAINABLE
FUTURE.**



| ICAO



ICAO ESAF/WACAF Regional Office UAS/RPAS Workshop

Nairobi, Kenya
June, 2025

ICAO UAS ToolKit & Resources

Objectives

- Understand the ICAO UAS ToolKit Resources;
- Be Aware Of ICAO Courses; &
- Understand the ICAO UAS IPack.



ORGANISATION DE L'AVIATION
CIVILE INTERNATIONALE

INTERNATIONAL CIVIL
AVIATION ORGANIZATION

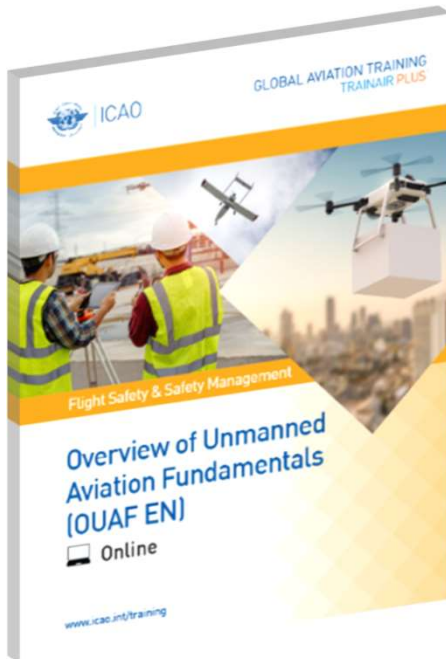
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OVERVIEW OF UNMANNED AVIATION FUNDAMENTALS (OUAF) [SELF-PACED]

This interactive online course provides clear explanations of the **differences between manned and unmanned aviation, operational and technical limitations** of UA/UAS, RPA/RPAS, and other unmanned aviation operational aspects.

This course also addresses the **certification requirements and processes**, State and **CAA Safety Inspector's roles** and responsibility for oversight.

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UNMANNED AIRCRAFT SYSTEMS OPERATIONS (UASO) [SELF-PACED]

This course provides CAA personnel involved in the regulation of unmanned aviation and other unmanned aviation professionals with a thorough **understanding of types of unmanned aviation operations**, including safe and **reliable BVLOS (Beyond visual-line-of-sight) operations**, and detailed **examples from ICAO's U-AID guidance material** to innovative industry examples.

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UNMANNED AIRCRAFT SYSTEMS REGULATIONS (UASR) [SELF-PACED]

This course provides CAA personnel involved in the regulation of unmanned aviation and other unmanned aviation professionals with the **competencies required to analyze and differentiate between categories of unmanned aviation** and the **regulatory frameworks set out in ICAO's Model UAS Regulations** and **developed for certified RPAS operations**.

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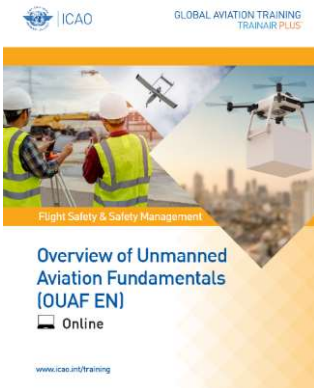


UNMANNED AIRCRAFT SYSTEMS SAFETY MANAGEMENT SYSTEM (UASSMS) [SELF-PACED]

This course provides CAA personnel involved in the regulation of unmanned aviation and other unmanned aviation professionals with the **competencies essential to the development of a Safety Management System for UAS operations**, including a complete description of the process as well as the tools, key considerations and examples for each step.

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**Overview of
Unmanned Aviation
Fundamentals
(OUAF)**



**Unmanned Aircraft
Systems Operations
(UASO)**



**Unmanned Aircraft
Systems Regulations
(UASR)**



**Unmanned Aircraft
Systems Safety
Management System
(UASSMS)**



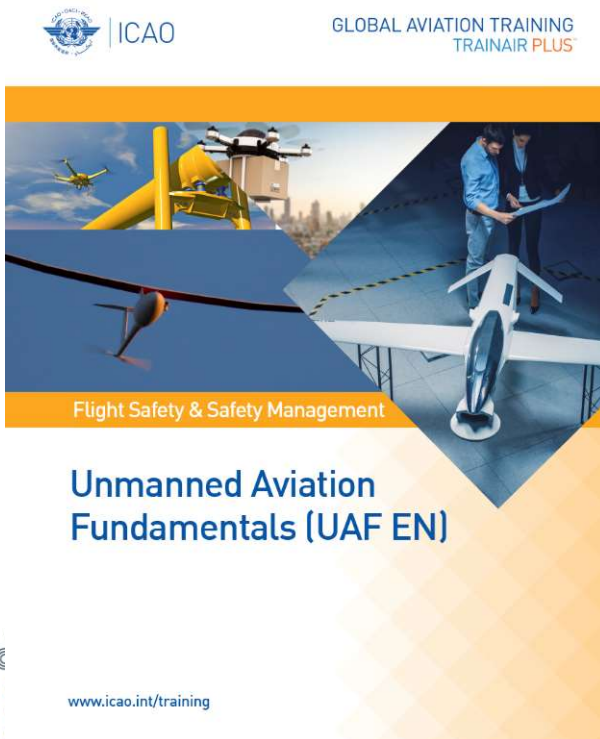
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the courses**



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UNMANNED AVIATION FUNDAMENTALS (UAF EN) [In-Person & Virtual]

This course provides CAA personnel involved in the regulation of unmanned aviation with the **competencies required to address the current and emerging safety issues related to unmanned aircraft operating in international and national airspace**, consistent with the developing ICAO Standards and Recommended Practices (SARPs) framework.

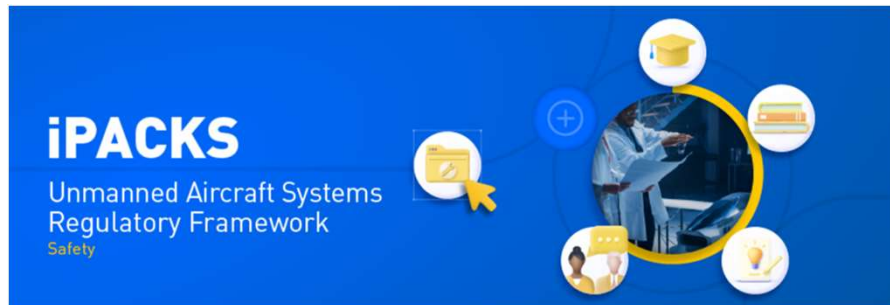


Scan to learn more



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iPACK: This Implementation Package (iPack) is a self-contained package aimed at assisting and guiding ministries of transport, Civil Aviation Authorities (CAAs), and organizations that intend to operate UAS in multiple countries in the implementation of a UAS regulatory framework that remains outside of the Remotely Piloted Aircraft Systems (RPAS) framework.



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Key components

iPacks consist of several key components that work together to facilitate the implementation of ICAO provisions. These include:



Expert consultation

iPacks offer consultative support of a **subject matter expert for a duration of 15-20 days**. Subject matter experts can guide, review, provide clarification, and support States in their activities.



Training

A standardized, competency-based training course will be provided for **up to 12 technical specialists**, enabling States to better confront their specific implementation challenges.



Guidance material

Our carefully curated guidance material includes ICAO annexes, manuals, guidance documents, and Procedures for Air Navigation Services (PANS) to ensure States have the complete library of resources they need.



Tools

Each iPack includes a unique set of tools to assist States with their implementation goals by conducting a gap analysis against the ICAO State Safety Plan (SSP) framework.

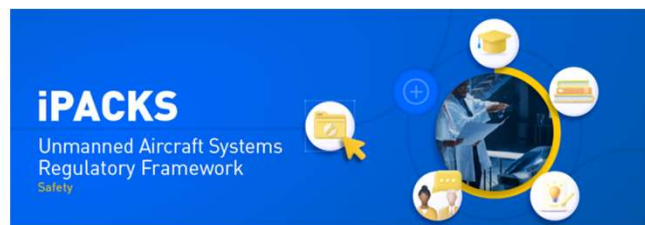
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Before the deployment of each iPack, ICAO works closely with the recipient's designated representative to better understand the organization's needs and expectations.

02

Following the delivery of the iPack training course(s), members of the recipient's iPack team work closely with the ICAO subject matter expert to ensure the programmatic goals for each iPack are achieved.



COMPONENTS

- Expertise:
 - A dedicated UAS subject matter expert for an expected duration of 20 workdays over a period of three months, providing remote technical assistance to achieve the objectives of the iPack.
- Training:
 - Overview of Unmanned Aviation Fundamentals: Online Course – 12 participants from CAA upper and middle management involved in UAS policy and regulatory development (five of whom will also enrol in the virtual course below) for a duration of two hours
 - Unmanned Aviation Fundamentals: Virtual Course – five participants from CAA middle management level involved in UAS policy and regulatory development for a duration of five days
 - Unmanned Aircraft Systems Regulations: Online Course – 12 participants for a duration of two hours
 - Unmanned Aircraft Systems Operations: Online Course – 12 participants for a duration of two hours
 - Unmanned Aircraft Systems Safety Management System: Online Course – 12 participants for a duration of two hours
- Tools:
 - Model UAS regulations
 - Advisory Circulars
 - Checklists
 - Decisions aids
 - Templates
 - Forms
- Documents:
 - ICAO Annexes
 - Guidance material

– Total number of training slots: 53 participants

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<https://www.icao.int/safety/UA/Pages/default.aspx>



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- ✓ Enabling UAS Operations (2 episodes)
- ✓ Introducing ICAO UAS Model Regulations
- ✓ UAS Beyond Visual Line-of-Sight Operations - for Regulators
- ✓ ICAO UTM Framework - Core Principles for Global Harmonization
- ✓ U-AID - Humanitarian Operations using UAS
- ✓ Safety Management System (SMS) for UAS Operations
- ✓ RPAS International IFR Regulatory Framework
- ✓ UTM Financial Sustainability Strategies
- ✓ UTM Deployment Best Practices and Lessons Learned

Visit ICAO TV (www.icao.tv) to register for your free account and Stream the latest videos from ICAO and civil aviation partners. Watch events, expert webinars, training content and much more.

Thank You

