



RASG-AFI CONTROLLED FLIGHT INTO TERRAIN (CFIT) WORKSHOP

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Air operator certification process as it relates to mitigation of risks associated with CFIT occurrences:

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What is CFIT?

- ▶ The following definition is used ICAO

- ▶ Controlled Flight into Terrain (CFIT):

occurs when an airworthy aircraft under the complete control of the pilot is inadvertently flown into terrain, water, or an obstacle

IATA defines CFIT as: “In-flight collision with terrain, water, or obstacle without indication of loss of control”



What is CFIT?

- ▶ CFIT is a Global High Risk Category of occurrence (G-HRC)
- ▶ As stated in ICAO doc 10004, Global Aviation Safety Plan 2022-2025, Paragraph 3.4.2 a)



AOC Certification process

- ▶ Processing an application for AOC unfolds in 5 phases normally sequenced as follows:
 - ▶ → pre-application phase;
 - ▶ → formal application phase;
 - ▶ → **document evaluation phase;**
 - ▶ → **demonstration and inspection phase; and**
 - ▶ → certification phase.



Mitigation of risk associated with CFIT

- ▶ **Safety Enhancement Initiatives (SEIs) for mitigation of risk associated with CFIT**
 1. **Ground Proximity Warning Systems (GPWS) with forward looking terrain avoidance function (TAWS or EGPWS)**
 - All aircraft used in CAT must be equipped
 - AOC Operations Manual part B
 2. **Standard Operating Procedures (SOPs)**
 - Use of SOPs is mandatory by AOC holders
 3. **Flight Data Analysis**
 - Implementation of FDA Programmes by AOC holders



Mitigation of risk associated with CFIT

- ▶ Safety Enhancement Initiatives (SEIs) for mitigation of risk associated with CFIT
 - 4. **Crew Resource Management (CRM):**
 - Regular training of flight and cabin Crew is mandatory for AOC holders
 - AOC Operations Manual part D
 - 5. **CFIT/ALAR Training:**
 - An-initio and recurrent training programmes should include CFIT
 - AOC Operations Manual part D



Mitigation of risk associated with CFIT

- ▶ Safety Enhancement Initiatives (SEIs) for mitigation of risk associated with CFIT
 - 6. **Precision-Like Approach: Continuous Descent Final Approach (CDFA)**
being implemented; (CCO/CDO?)
 - 7. **Minimum Safe Altitude Warning (MSAW)**
in the course of implementation (RADAR based)
 - 8. **Performance-Based Navigation (PBN)**
All aircraft used in CAT
For all flight crew

**Thank for your kind
attention**