

Aeronautical Information Mgmt (AIM/AIS) Specialist

Department : Air Navigation Directorate or ASSD

Employment Type : Full-Time

About the Role

As a State Aviation Regulator, we seek an Aeronautical Information Management (AIM/AIS) Specialist to enhance our oversight and enforcement of accurate, timely, and efficient aeronautical information services, including the collection, processing, dissemination, and management of aeronautical data for safe air navigation. The ideal candidate is a dedicated aviation professional with extensive expertise in local, national, and international regulations to ensure data integrity, support the transition from traditional AIS to data-centric AIM, mitigate risks, and uphold the highest standards of aviation safety and operational efficiency. This role is critical in supporting our mission to protect public safety and aligns with ICAO Annex 15 (Aeronautical Information Services), ICAO Doc 10066 (Procedures for Air Navigation Services - Aeronautical Information Management, PANS-AIM), ICAO Doc 8126 (Aeronautical Information Services Manual), ICAO Doc 7383 (Aeronautical Information Services Provided by States), ICAO Doc 9750 (Global Air Navigation Plan), ICAO Annex 4 (Aeronautical Charts), and global best practices for AIM oversight and quality management.

Key Responsibilities

- Conduct comprehensive inspections, audits, and surveillance of AIM/AIS providers and operations including data originators, aeronautical information service units, NOTAM offices, and charting services to ensure compliance with local regulations, ICAO Annex 15 Standards and Recommended Practices (SARPs), ICAO Doc 10066 PANS-AIM requirements for data management and exchange, ICAO Doc 8126 guidance on AIS operations, and ICAO Doc 7383 provisions for State AIS, including approvals for AIM training programs, data sets, and electronic aeronautical information publications (AIP, eAIP).
- Lead and participate in investigations of serious or critical incidents related to aeronautical data inaccuracies, delays, or failures (e.g., NOTAM errors or AIP discrepancies), analyze root causes, prepare detailed reports, and recommend corrective actions to prevent recurrence, following ICAO's safety investigation guidance (Doc 9756 and Annex 13).
- Review and assess applications for AIM/AIS approvals, such as data set validations, AIP amendments, NOTAM issuances, and transitions to SWIM (System Wide Information Management), assisting the Director of Safety and Security in evaluating data quality, formats (e.g., AIXM), metadata, and dissemination procedures for adherence to ICAO Annex 15, Doc 10066, Doc 8126, and related standards like ICAO Doc 9859 (Safety Management Manual) for risk-based oversight.

- Verify that all AIM/AIS personnel and providers are fully trained and compliant with competency-based standards; report instances of non-compliance in areas such as data integrity, quality management systems (QMS), digital data sets, or cybersecurity for aeronautical information.
- Inspect aeronautical information processes at aerodromes, en-route facilities, and data exchange points, coordinate with relevant stakeholders (e.g., ATM, CNS providers) to resolve issues, and ensure proper safety and efficiency measures are followed, in line with ICAO Doc 8126 and Annex 15 security provisions.
- Maintain accurate records of AIM/AIS applications, correspondence, inspections, and audits; support the Director of Safety and Security in preparing and presenting annual audit/inspection reports on AIM performance and State differences under Article 38 of the Chicago Convention.
- Contribute to the development and update of national regulations, standards, and procedures relating to AIM/AIS, including the implementation of a Quality Management System (QMS) and transition roadmaps from AIS to AIM, aligning with ICAO Annex 15 amendments, Doc 10066, Doc 8126, ICAO Guidance on AIS/AIM Training Development, and international best practices.
- Perform other related duties, including delivering technical advice on AIM matters, providing training on data-centric processes, and supporting regulatory updates, following ICAO guidance (e.g., Doc 10070, 2.2.4 for Air Navigation Services CASI).

Essential Requirements

- Bachelor's degree in Aeronautical Engineering, Electronics, Geoinformatics, Information Management, Aviation Management, or a related technical field.
- Minimum 5 years' progressive experience in AIM/AIS operations, data management, or regulatory oversight, with at least 3 years in commercial air navigation environments.
- Proven experience conducting audits, inspections, or certifying AIM/AIS activities in accordance with ICAO standards, including data processing and dissemination.
- Sound knowledge of:
 - ICAO Annex 15 (Aeronautical Information Services), including SARPs on AIP, NOTAM, data quality, and AIM transition.
 - ICAO Doc 10066 (PANS-AIM), covering procedures for aeronautical data origination, validation, and exchange formats like AIXM.
 - State regulatory frameworks, international aviation safety law, and safety risk management practices for AIM.
 - Procedures for managing static/dynamic aeronautical data, quality assurance, electronic terrain/obstacle data (eTOD), and integration with SWIM.
- Experience in incident investigation related to aeronautical information management and data inaccuracies.

- Familiarity with ICAO safety oversight and compliance frameworks, including SSP, USOAP, and AIM quality management systems.

Preferred Qualifications

- Certifications such as ICAO AIM Training, ICAO Aviation Safety Inspector Credentials, or equivalent (e.g., EUROCONTROL AIM courses or competency-based AIS/AIM training per ICAO Guidance).
- Experience in risk assessment techniques for AIM systems, such as data integrity checks, QMS implementation, and analysis of AIM transition impacts.
- Background working with international organizations or multi-stakeholder environments in AIM/AIS (e.g., ICAO, EUROCONTROL, or regional AIM groups).
- Proven ability to provide technical training and conduct capacity-building activities in AIM safety, data management, and quality assurance.
- Approaches AIM oversight with an effective risk management strategy, considering the specific risk profile.
- Analyzes information critically to achieve consistent and desirable outcomes.
- Required for regulatory compliance and digital transition oversight.

Core Competencies

- Strong understanding of hazard & risk management techniques, including data quality assessments, error analysis, and mitigation strategies for AIM systems, with ability to apply and continuously improve technical knowledge and skills related to aeronautical information management and safety.
- Ability to assess complex AIM scenarios, analyze multifaceted issues (e.g., data interoperability, SWIM integration), consider risks, and make informed, timely decisions based on relevant facts while approaching oversight with an effective risk management strategy considering the specific risk profile.
- Excellent communication skills with ability to convey and receive information effectively through oral, written, and non-verbal communication, capable of engaging diverse stakeholders including AIM providers, air traffic services, and data originators.
- Understands how different components of AIM management systems (e.g., data chains, QMS, digital exchanges) interact and function together, with ability to analyze information critically to achieve consistent and desirable outcomes.
- Independently and proactively identifies and addresses issues with meticulous attention to detail for inspections, reporting, and compliance verification, demonstrating resilience under pressure with a proactive attitude towards safety improvements and continuous learning.
- Upholds high ethical standards, demonstrating integrity, transparency, and fairness in all oversight activities, guided by ICAO and international best practices.