



OACI

Organización de Aviación Civil Internacional
Oficina para Norteamérica, Centroamérica y Caribe

NOTA DE INFORMACIÓN

NACC/DCA/11 — NI/34
22/06/23

**Undécima Reunión de Directores de Aviación Civil de Norteamérica, Centroamérica y Caribe
(NACC/DCA/11)**

Varadero, Cuba, 28 al 30 de junio de 2023

**Cuestión 4 del
Orden del Día:**

Implementación regional NAM/CAR de seguridad operacional/navegación aérea

4.1 Implementación de asuntos de seguridad operacional

AMPLIACIÓN DE OFERTA ACADÉMICA COCESNA/ICCAE EN INGLÉS

(COCESNA)

RESUMEN EJECUTIVO

La finalidad de esta nota informativa presenta la iniciativa para ofrecer cursos de formación y recurrencia en idioma inglés, en áreas de navegación aérea, seguridad operacional y aeropuertos, a fin de satisfacer las necesidades de formación de los países de habla inglesa del Caribe.

*Objetivos
Estratégicos:*

- Objetivo estratégico 1 – Seguridad Operacional
- Objetivo estratégico 2 – Capacidad y eficiencia de la navegación aérea

Referencias:

- Anexo 1 de la OACI Licencias al Personal.
- Doc. 9941 de la OACI TRAINAIR PLUS Guía de Desarrollo de Entrenamiento - Metodología de Entrenamiento Basado en Competencias.

1. Introducción

1.1 El Instituto Centroamericano de Capacitación Aeronáutica - ICCAE, como institución dedicada al desarrollo profesional en el campo de la aviación civil por medio de eventos de capacitación, desempeña un papel fundamental en el fortalecimiento de la industria aeronáutica en la región centroamericana, siendo parte de COCESNA, organismo responsable de la prestación de servicios de navegación aérea en los países miembros, ICCAE se ha convertido en un referente de excelencia educativa y entrenamiento especializado para profesionales del sector.

1.2 ICCAE está lanzando una iniciativa estratégica destinada al análisis de necesidades de entrenamiento, diseño, producción e impartición de cursos de formación y recurrencia en idioma inglés en diversas modalidades para países de habla inglesa del Caribe. Esta iniciativa tiene como objetivo principal fortalecer las capacidades y competencias de profesionales de la aviación en la región, brindándoles acceso a programas de entrenamiento de alta calidad en su idioma nativo.

2. Antecedentes

2.1 A lo largo de los años, se han llevado a cabo diversas iniciativas y programas de formación destinados a proporcionar a los profesionales de la aviación civil las habilidades y conocimientos necesarios para operar de manera segura y eficiente en un entorno aeronáutico cada vez más complejo. Uno de los principales desafíos que enfrentan los países del Caribe en materia de capacitación aeronáutica, es la necesidad de contar con programas educativos y de formación adaptados a las necesidades y particularidades de la región. Debido a la variedad de operaciones aéreas que se llevan a cabo, es crucial contar con programas de capacitación que aborden temas específicos, como operaciones en aeropuertos de diferentes capacidades, vuelos internacionales, domésticos e interinsulares y gestión de riesgos en entornos tropicales, entre otros.

2.2 Sin embargo, a pesar de los avances realizados, persisten desafíos en el ámbito de la capacitación aeronáutica en el Caribe. Algunos de estos desafíos incluyen la disponibilidad de recursos educativos actualizados, la falta de infraestructura adecuada para la formación práctica y la necesidad de mejorar la accesibilidad a programas de capacitación para aquellos profesionales que no residen en las cercanías de los centros de instrucción.

2.3 ICCAE considera que su experiencia y enfoque en la capacitación aeronáutica pueden ser extrapolados a otras regiones y contextos. La adaptabilidad, la colaboración internacional y la atención a la diversidad cultural y lingüística son elementos clave que respaldan la capacidad de ICCAE para ampliar su impacto y contribuir al desarrollo de profesionales altamente capacitados en la industria aeronáutica en diferentes partes del mundo.

3. Descripción General

3.1 Esta iniciativa tiene como objetivo cerrar las brechas de formación técnica y brindar igualdad de oportunidades lingüística para que todas las personas accedan a programas de educación y capacitación de calidad. Los cursos serán diseñados e impartidos por expertos en sus respectivos campos de experticia, asegurando que el contenido sea relevante, actualizado y satisfaga las necesidades de los alumnos.

3.2 La puesta en marcha de dicha iniciativa se está realizando a través de pasos estratégicos como el análisis de necesidades, la selección de instructores cualificados, la producción de materiales educativos y la impartición de cursos interactivos en áreas de navegación aérea, seguridad operacional y aeropuertos, ICCAE busca fortalecer las habilidades y competencias de los profesionales del Caribe en el idioma inglés, contribuyendo así al desarrollo de la industria y al crecimiento de los países de la región.

4. Conclusión

4.1 Esta iniciativa no solo beneficiará a particulares y profesionales, sino que también contribuirá al desarrollo de las economías de estos países.

4.2 Se considera propicio que, por medio de OACI contar con una red colaborativa donde se informe sobre las necesidades de capacitación de las diferentes regiones a fin de que los centros de instrucción puedan determinar capacidades para atender requerimientos técnicos.



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Aviation Training

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CORPORACION CENTROAMERICANA DE SERVICIOS DE NAVEGACION AEREA
INSTITUTO CENTROAMERICANO DE CAPACITACION AERONAUTICA





Instituto Centroamericano de Capacitación Aeronáutica

ICCAE is the Training Center of the Corporación Centroamericana de Servicios de Navegación Aérea, and emerged as an initiative to meet the institutional training needs in the field of air navigation.

ICCAE is established as the most prominent aeronautical training center in the Central American region and has a significant international projection, offering quality solutions in the training and development of personnel linked to the air transport industry.

The programs with the highest number of courses taught and trained personnel are Air Navigation and Operational Safety, with the Air Traffic Control -ATC- area considered the most prominent and recognized internationally, with equipment and simulators.

Our projection is evidenced by the diversity of nationalities of our participants, with representatives from organizations in Mexico, Belize, Guatemala, Honduras, El Salvador, Nicaragua, Costa Rica, Panama, Cuba, Dominican Republic, Colombia, Bolivia, Ecuador, Peru, Paraguay, and Venezuela, among others.

Operational Safety





Operational Safety Management System - SMS

Expected Learning:

Since this is an introductory course, upon completion participants will be able to initiate the development and implementation of a Safety Management System according to the ICAO Standards and Recommended Practices (SARPS) corresponding to those contained in Annex 19, the ICAO Safety Management Manual (Doc. 9859. Rev. 03) and national regulations.

Target Population

- Representatives of Civil Aviation Authorities and the aviation industry with responsibilities related to the development and implementation of safety programs and the implementation and/or oversight of safety management systems.

Content:

- Introduction.
- Basic concepts of operational security.
- Introduction to safety management.
- Hazards.
- Risks.
- ICAO SARPs on SMS.
- Introduction to SMS.
- SMS Structure - I.
- SMS Structure - II.
- SMS implementation stages.

Duration:

40 hours

Mod:

Classroom

Virtual

Language:

Español

English



State Operational Safety Program – SSP

Expected Learning:

Upon completion of the course, the participant will be able to establish a State Safety Program (SSP) with acceptable levels of safety performance (ALoSP) related to operational safety

Target Population

- Officials from Civil Aviation Authorities with responsibilities related to the development and implementation of safety programs and/or oversight of Safety Management Systems (SMS).

Content:

- Introduction.
- Basic concepts of security management.
- ICAO SARPs related to security management.
- ICAO structure of the SSP.
- ALoSP related to an SSP.
- Prescription / Performance.
- SSP Training Program.
- SSP Implementation Plan.

Duration:

32 hours

Mod:

Classroom

Virtual

Language:

Español

English



Human Factors in Aviation and Human Resources Management – CRM

Expected Learning:

At the end of the course, the participants will be able to identify the characteristics of the incidence of human factors in aviation.

Target Population

- Personnel who work in the different operational positions of the dependencies of the Civil Aviation Authorities.

Content:

- Aviation management and CRM.
- Quality, the perfect strategy.
- Exposure to risk.
- Collaborative teams.
- The cost of human errors.
- Leadership and organization.
- Communication, the great challenge.
- Conflict resolution.
- Briefing & Debriefing.
- How to make smart decisions?
- Well-being of operational personnel.
- Time management

Duration:

40 hours

Mod:

Classroom

Virtual

Language:

Español

English



Aircraft Maintenance Reliability

Expected Learning:

At the end of the Course, the participants will be able to describe the development of reliability-based maintenance programs, the techniques for evaluating the maintenance program and the continuous monitoring of its effectiveness, as well as the evaluation and approval of these methods.

Target Population

- Airworthiness Inspectors and other professionals who are in a decision-making or implementation position within organizations linked to the aviation industry, such as: Civil Aviation Authorities, maintenance workshops, airlines, among others.

Content:

- Introduction and Generalities.
- Evolution of Maintenance Reliability Programs.
- Nature of the Failure.
- Development of the Maintenance Program.
- Implementation of the Reliability System.

Duration:

32 hours

Mod:

Classroom

Virtual

Language:

Español

English



Aircraft Corrosion and Aging

Expected Learning:

At the end of the course the participant will have the skills to: Apply technical knowledge to identify the causes of corrosion and the aging of aircraft, complying with the framework of technical instructions to strengthen the safety management

Target Population

- Airworthiness inspectors and engineering specialists.
- Aeronautical engineers in charge of compliance and surveillance of control programs of corrosion prevention (CPCP) and structural aging.
- Quality control inspectors and aeronautical technicians conducting inspections structural

Content:

- Generalities about aeronautical structures and materials.
- General concepts on corrosion and fatigue.
- Aircraft aging/ Regulations and methods.

Duration:

40 hours

Mod:

Classroom

Virtual

Language:

Español

English



Aircraft Compliance

Expected Learning:

Upon completion of the course, the participant will have the necessary knowledge and skills to apply inspection techniques in the certification and supervision processes of aircraft of commercial air transport, evaluating aircraft inspection processes and their documentation associated, in order to ensure conformity with its Type Certificate, as required in the applicable national, FAA, EASA and ICAO regulations.

Target Population

- Aimed at Airworthiness Inspectors and technicians who are in a position to take decisions or implementation within organizations linked to the aeronautical industry, such as Civil Aviation Authorities, maintenance workshops, airlines, among others.

Content:

- Introduction and Generalities.
- Certificates.
- Continuing Airworthiness.
- Aircraft Design, Equipment and Requirements.
- Aircraft Conformity Inspection.

Duration:

40 hours

Mod:

Classroom

Virtual

Language:

Español

English



Aircraft Alterations and Repairs

Expected Learning:

Upon completion of the course, the participant will have the necessary knowledge and skills to apply FAA, EASA and ICAO regulations and documentation associated with repairs and alterations within the aeronautical maintenance process, in compliance with what is required in the national regulations.

Target Population

- Airworthiness and engineering and technical specialists who are in the decision making position decisions or implementation within organizations linked to the aeronautical industry, such as Civil Aviation Authorities, maintenance workshops, airlines, among others.

Content:

- Introduction/ Aeronautical Products.
- Approved and Accepted Technical Data.
- Maintenance Tasks.
- Repairs and Major Alterations.

Duration:

40 hours

Mod:

Classroom

Language:

Español

English

Air Navigation





Introduction to Performance Based Navigation

Expected Learning:

At the end of the course, the participant will have all the conceptual base related to the implementation of PBN performance-based navigation and the impact of this application in the tasks of the air traffic controller.

Target Population

- Air traffic Controllers - ATC.
- Traffic services Inspectors.
- Aircraft, Airspace Planners, Supervisors of the units of air traffic services.

Content:

- Introduction Air Navigation.
- Introduction to GNSS.
- Augmentation systems.
- GNSS navigation benefit.
- Area Navigation and PBN.
- SID, STAR and APCH.
- ATC considerations.
- PBN Implementation.

Duration:

64 hours

Mod:

Classroom

Language:

Español

English



On-the-job Training Instructor for Air Traffic Control (OJTI for ATC)

Expected Learning:

Upon completion of the course, participants will be able to plan and conduct effective on-the-job training sessions for new ATC personnel.

Target Population

- Air Traffic Controllers who will be designated to conduct on-the-job training processes for ATC personnel.

Content:

- Context of On-the-Job Practical Training / OJT.
- OJT Session Planning.
- Delivery of IPPT Sessions .
- Evaluating Trainee Performance.

Duration:

64 hours

Mod:

Classroom

Language:

Español

English

International Air Law





Introduction to Air Law

Expected Learning:

At the end of the course the participant will be able to describe the essential legal foundations that allow understanding the nature of air law, as well as to give the precise normative value to each of the legislations applicable to their professional environment.

Target Population

- Lawyers and other professionals interested in expanding their knowledge in the field of Aeronautical Law.
- High-ranking officials and Legal Departments of Civil Aviation Authorities (CAAs).
- Officials from Ministries of Foreign Affairs and other entities involved in the negotiation of Bilateral Agreements. Legal,
- Operations, and Commercial Departments of Airlines, Airports, and Aircraft Maintenance Organizations.

Content:

- Concepts and Characteristics of Air Law.
- Air Law and International Organizations.
- Civil Aviation Subsystems and Air Law.
- Licenses for Technical Personnel in Aviation.
- Introduction to Industry Rates and Costs.

Duration:

40 hours

Mod:

Classroom

Virtual

Language:

Español

English



Air Transport Law

Expected Learning:

Upon completion of the course, participants will be able to describe the basic elements of international Air Law, identifying the principles that govern aviation activities and applying them to local legislation.

Target Population

- Legal Departments of Civil Aviation Authorities (CAAs).
- Legal Managers of Operations and Commercial Departments in Airlines, Airports, and Aircraft Maintenance Organizations.
- Lawyers and other professionals interested in expanding their knowledge in the field of Aeronautical Law.
- Officials from Ministries of Foreign Affairs and other entities involved in the negotiation of Bilateral Agreements.

Content:

- Legal framework of aircraft.
- Air transport contracts.
- Aero commercial policies.
- Rights, obligations, and responsibilities of air transport.

Duration:

40 hours

Mod:

Classroom

Virtual

Language:

Español

English



Airport Law

Expected Learning:

Upon completion of the course, participants will be able to explain the general theory of international airport law by analyzing the service, evolution, and legal relationship, identifying the principles that govern aviation activities in order to apply them to local legislation.

Target Population

- Lawyers and other professionals interested in expanding their knowledge in the field of Aeronautical Law.
- Senior officials and Legal Departments of Civil Aviation Authorities (CAAs).
- Officials from Ministries of Foreign Affairs and other entities involved in the negotiation of Bilateral Agreements.
- Legal, Operations, and Commercial Departments of Airlines, Airports, and Aircraft Maintenance Organizations.

Content:

- Aeronautical infrastructure.
- Airport law.
- Insurance.
- Economic and financial aspects.
- Responsibilities not specifically legislated arising from aeronautical activities.

Duration:

40 hours

Mod:

Classroom

Virtual

Language:

Español

English



Administrative and Criminal Regime of Aeronautical Law

Expected Learning:

By the end of the course, participants will be able to explain, from a general and systematic perspective, the process of Aeronautical Administration and the Administrative and Legal Regime of Air Navigation and its Infrastructure, in order to apply the acquired knowledge to local legislation.

Target Population

- Lawyers and other professionals interested in expanding their knowledge in the field of Aeronautical Law.
- Senior officials and Legal Departments of Civil Aviation Authorities (CAAs).
- Officials from Ministries of Foreign Affairs and other entities involved in the negotiation of Bilateral Agreements.
- Legal, Operations, and Commercial Departments of Airlines, Airports, and Aircraft Maintenance Organizations.

Content:

- Operator Perspective in Aeronautical Law.
- Approach in Air Law.
- Aeronautical Search and Rescue.
- Civil Aviation Security and Operational Safety.
- Offenses and Failures in Air Law.

Duration:

40 hours

Mod:

Classroom

Virtual

Language:

Español

English





Para más información
puede contactarnos o visitarnos en:

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