

RÉPUBLIQUE DÉMOCRATIQUE DU CONGO
AUTORITÉ DE L'AVIATION CIVILE



PROGRAMME
DE FORMATION THÉORIQUE DU
PERSONNEL TECHNIQUE DE L'AAC/RDC
« ETFAAC-ORG -00-02 »

Approuvé par le Directeur Général de l'AAC/RDC

**PROGRAMME DE FORMATION THEORIQUE DU
DOMAINE DE LA NAVIGABILITÉ DES AÉRONEFS (AIR)**

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**ANNEXE 3 AU MANUEL DE GESTION DE FORMATION DU PERSONNEL TECHNIQUE DE
L'AVIATION CIVILE DE LA RÉPUBLIQUE DÉMOCRATIQUE DU CONGO (MOAAC-ORG-00-05) :**

**PROGRAMME DE FORMATION THEORIQUE DU PERSONNEL TECHNIQUE DU DOMAINE DE LA
NAVIGABILITE DES AERONEFS (AIR)**

1. FORMATION INITIALE
A. Formation initiale introductive
Orientation de nouveaux employés
Organisation de l'Aviation Civile Internationale (OACI)
Organisation du système national d'aviation civile
Réglementation nationale relative à l'aviation civile
B. Formation initiale de base
Politiques et procédures de certification/autorisation, de surveillance et de résolution des problèmes de sécurité
Programme de sécurité de l'Etat (PSE/PNS) et Plan national de sécurité de l'aviation (NASP)
Système de management de la sécurité
Système de management de la qualité
Facteurs humains
Technique d'audit/inspection
Résolution des problèmes de sécurité
123 Base sûreté
Responsabilités administratives civiles et pénales
C. Formation initiale de spécialisation
ICAO Government Safety Inspector – GSI AIR ou équivalent (Formations de certification et de surveillance continue des exploitants aériens – volet navigabilité et Formations de certification et de surveillance continue des organismes de maintenance)
Approbations opérationnelles spécifiques (RVSM, EDTO, LVO, LVP, MNPS, PBN, EFB) – aspect navigabilité
Immatriculation des aéronefs (aircraft registration)
Programme d'entretien (Aircraft maintenance program)
Liste minimale d'équipements de référence/liste minimale d'équipements (MMEL/MEL)
Modifications et réparations majeures
Inspection sur l'aire de trafic (SAGA, SANA, SAFA)
2. FORMATION CONTINUE DE MAINTIEN DE COMPETENCE (RECYCLAGE & PERIODIQUE)
Réglementation relative à l'aviation civile et documents OACI pertinents (chaque évolution)
Politiques et procédures de certification/autorisation, de surveillance et de résolution des problèmes de sécurité (chaque évolution)
Code d'éthique et conduite professionnelle (tous les 5 ans ou à chaque évolution)
Programme de sécurité de l'Etat (PSE/PNS) et Plan national de sécurité de l'aviation (NASP) (à chaque évolution)
Système de management de la sécurité (tous les 3~5 ans)
Facteurs humains (tous les 3~5 ans)
123 Base sûreté (tous les 2 ans)
Inspection sur l'aire de trafic (SAGA, SANA, SAFA) (tous les 3~5 ans)
3. FORMATION AVANCEES ET SPECIALISEES
Établissement d'un plan de surveillance
Marchandises dangereuses cat 6
Surveillance des opérations de location d'aéronefs (Oversight of Aircraft Leasing Operations)
Réglementation des systèmes d'aéronef sans pilote (Unmanned Aircraft Systems Regulations)

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Qualification/Familiarisation générale (GenFam) sur type aéronef (en fonction de la flotte de la RDC)
Systèmes avioniques (GPS System, Mode S transponder/TCAS, GPWS, Weather Detection Equipment, Flight Data Recorders, Cockpit Voice Recorders, EFIS/EICAS, ...)
Introduction à la certification des aéronefs lourds (CS-25 Large Aeroplane Certification)
Gestion du maintien de la navigabilité des aéronefs <i>lourds</i> (Continuous Airworthiness Management for Large Aircraft)
Système d'interconnexion de câblage électrique (Electrical wiring interconnection systems - EWIS)
Sécurité des réservoirs de carburants (Aircraft fuel tank safety - FTS)
Masse et centrage d'aéronef (Aircraft weight and balance)
Programme de fiabilité des aéronefs (Aircraft reliability program)
Analyse des données de vol (flight data monitoring)
Surveillance des tendances du moteur (Engine trend monitoring – ETM)
Gestion des risques liés à la fatigue (Fatigue Risk Management Systems - FRMS)
Aircraft Inspection Techniques
Planification de la production – gestion et surveillance (Production Planning Management and Oversight)
Procédures de gestion et d'inspection des magasins (Stores Management & Inspection Procedures and Processes)
Enregistrements techniques d'aéronef (Aircraft Technical Records)
Programme de prévention et de contrôle de la corrosion des aéronefs (Aging Aircraft - Corrosion Prevention and Control Program)
Control non destructif (Non destructive test - NDT)
Plan d'intervention d'urgence (Emergency response plan - PIU/ERP)
Familiarisation aux enquêtes sur les accidents et incidents d'aviation
ICAO Government Safety Inspector – Air Cargo Certification
ICAO Government Safety Inspector – GSI PEL ou équivalent
Certification des organismes de formation aéronautique (Approval of training organization)
ICAO Government Safety Inspector – GSI OPS ou équivalent
Prise de décision basée sur les données d'aviation (Aviation Data-Driven Decision Making (AD3M))
Analyse des causes profondes (Root Cause Analysis)
European Co-ordination center for accident and incident reporting systems (ECCAIRS)
Environnement (bruit, émissions de moteur d'aviation, CORSIA)
Instructeur (Training instructors course - TIC)
Développeur de cours (training developers course - TDC)
Instructeurs des formations en cours d'emploi (On-the-job training instructor)
ICAO USOAP CMA – LEG/ORG
ICAO USOAP CMA – AIR
ICAO USOAP CMA – PEL
ICAO USOAP CMA – OPS
Management de la conformité aux SARPs OACI
Responsables de la supervision de la sécurité (safety oversight managers)

Le contenu des formations est décrit dans l'appendice du présent programme de formation.

Fait à Kinshasa, le 29 août 2022

Le Directeur Général

TSHIUMBA MPUNGA Jean

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APPENDICES DE L'ANNEXE 3 : CONTENU DES FORMATIONS DU PROGRAMME DE FORMATION DOMAINE AIR

	DURÉE DU COURS	OBJECTIFS DU COURS	DESCRIPTION DU COURS	FORMEL (OUI/NO N)
1. FORMATION INITIALE				
A. FORMATION INITIALE INTRODUCTIVE				
Orientation de nouveaux employés	16H	Fournir des informations sur l'organisation et le fonctionnement des différentes directions, cellules et commission de l'AAC/RDC	Mission, organisation et fonctionnement de l'AAC/RDC (decret organique, cadre organique...) Procédures administratives de l'AAC/RDC (avantages sociaux, temps de travail et présence, code d'éthique et de conduite, sanctions, rémunération,...) Gestion des ressources Système d'information Système Qualité de l'AAC/RDC	NON
Organisation de l'Aviation Civile Internationale (OACI)	4H	Fournir des informations sur le rôle de l'OACI, la Convention de Chicago et ses annexes ainsi que les obligations internationales de la RDC relatives à la sécurité aérienne	Convention relative à l'aviation civile internationale Objectif de l'OACI Organisation de l'OACI Dispositions de la Convention relatives à la supervision de la sécurité Normes et pratiques recommandées (SARPs) Publications de l'OACI (annexes, documents) Dispositions pertinentes des annexes	NON
Organisation du système nationale d'aviation civile	2H	Fournir des informations sur la structure du système d'aviation civile de la RDC	Description des rôles et fonctions des différents acteurs du système nationale de l'aviation de la RDC (Ministère en charge de l'aviation civile, AAC, BPEA, RVA, etc.)	NON
Réglementation nationale relative à l'aviation civile	8H	Fournir au nouvel employé des informations sur le cadre réglementaire et législatif en RDC	Description du cadre législatif et réglementaire de l'aviation civile (loi, décret, etc.) Identification des règlements aéronautiques de la RDC (RACD) Présentation de la Loi sur l'aviation civile Présentation des Règlements RADC relatifs au domaine de supervision concerné Présentation des textes relatifs à l'exercice de la fonction d'inspecteur de supervision de la sécurité aérienne	NON
B. FORMATION INITIALE DE BASE				
Politiques et procédures de certification/autorisation, de surveillance et de résolution des problèmes de sécurité	40J	Fournir des informations relatives au système de supervision	Familiarisation aux procédures de gestion documentaire-élaboration des RADC et documents associés- adoption des RADC et documents associés- amendement des RADC et documents associés- diffusion des RADC et documents associés-Processus de notification des différences à l'OACI- Obligation et exigences de notification des différences- Détermination des différences- Notification des différences- Processus et procédures de gestion des différences- Cas pratique (démonstration) Fonctions et rôles des inspecteurs- obligations des inspecteurs- présentation des fiches de poste de la Direction/Cellule/Commission- présentation des fiches de postes des inspecteurs-Présentation de la méthode de surveillance continue (CMA) et des outils de sécurité de l'Aviation Civile des Etats (SAST) - Eléments cruciaux d'un système de supervision de la sécurité- Présentation des questions de protocoles (PQs) relatives aux domaines concernés- Elaboration d'un plan d'actions correctrices (CAP) OACI- Cadre en ligne de la CMA- Outils SAST. Formation et qualifications des inspecteurs Manuel des procédures des inspecteurs du domaine concerné- Organisation de la direction/cellule/commission- Politique de supervision de la sécurité de l'AAC/RDC- Code de conduite du personnel technique de l'AAC/RDC- Activités de supervision (audit, inspection...)- Procédures, formules et listes de vérification	NON
Programme de sécurité de l'Etat	40H	Développer et mettre en oeuvre un SSP conforme aux SARP pertinents de l'OACI, y compris un	Exigences du SSP et du SMS- Le besoin de développer le SSP- Le SSP comme passerelle entre les processus de sécurité de l'Etat et du fournisseur de services Contenu et amendements futurs de l'Annexe 19 de l'OACI Contenu et	OUI

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		cadre de travail réglementaire harmonisé pour la surveillance du produit et des SMS des fournisseurs de services Assurer un SSP opérationnel qui exige que les États effectuent des fonctions précises, y compris l'adoption d'une législation, de réglementations, de politiques et de directives pour soutenir la fourniture sécuritaire et efficace de produits et de services d'aviation Comprendre le besoin d'établir et de maintenir une base de données de sécurité qui peut être utilisée pour soutenir une analyse des données sur la sécurité Comprendre que la sécurité est maintenant centrée sur les données et que l'approche prescriptive actuelle envers la sécurité est élargie et accompagnée d'une approche basée sur le rendement	éléments d'orientation sur le SSP et le SMS dans le Manuel de gestion de la sécurité, doc. no 9859 Objectifs, exigences et mise en oeuvre du SSP Cadre de travail de SSP de l'OACI- Politique et objectifs de sécurité de l'État- Gestion des risques pour la sécurité de l'État, assurance sécurité- Promotion de la sécurité de l'État L'approche à quatre étapes de la mise en oeuvre d'un SSP Production de rapports et mesures du rendement d'un SSP Niveau acceptable de sécurité (ALoS) et rendement à un ALoS (ALoSP)- Mesure du rendement en matière de sécurité (SPM) Bases de données de sécurité pour soutenir l'analyse des données sur la sécurité Protection des données et de l'information sur la sécurité et des sources reliées dans le cadre du SSP Le SSP et l'ALoSP de la compagnie aérienne	
Système de management de la sécurité	40H	Comprendre les exigences et concepts de la Gestion de la Sécurité Pouvoir identifier les dangers et gérer les risques de sécurité Améliorer la performance de sécurité d'une organisation Savoir définir une politique et des objectifs de sécurité	Fondamentaux de SM - Le concept de sécurité - L'évolution de la sécurité- Causalité des accidents- Personnes, contexte et sécurité- Erreurs et violations- Culture de sécurité- Le dilemme de la gestion- Gestion du changement- Intégration des systèmes de gestion- Comptes rendus et investigations sur la sécurité- Collecte et analyse des données sur la sécurité & SPIs- Identification des dangers et évaluation des risques SARP SM - Annexe 19-2 - Spécifications relatives à la gestion de la sécurité par les États (A19-2, C3, App 1)- Système de gestion de la sécurité (A19-2, C4, App 2)- Collecte, analyse, protection, partage et échange de données de sécurité et d'informations sur la sécurité (A19-2, C5, App 3) Mise en oeuvre du SMS - Organisation et responsabilité des SMS- Analyse des écarts SMS- Mise en oeuvre du SMS- Intégration du SMS- Manuel et registres du SMS- Comité de SMS et administration- Politique et objectifs de sécurité- Plan d'intervention d'urgence- Identification du danger- Atténuation des risques de sécurité - Gestion du changement- Compte rendu et enquête- Traitement et Analyse des données- Indicateurs de performances de sécurité- Niveau acceptable de performances de sécurité - Politique et procédures disciplinaires- Programme de formation du SMS- Partage et échange d'informations sur la sécurité- Vérifications internes et externes du SMS Développement SPI & ALoSP - Rassembler les SPI potentiels - Sélectionner le paquet SPI- Développer des graphiques SPI- Incorporer les paramètres d'alerte SPI et les paramètres des objectifs- Surveiller les performances de chaque SPI - Quantifier les performances des SPI en paquet- Établir et atteindre ALoSP	OUI
Système de management de la qualité	40H	Comprendre : Les enjeux d'un système de management de la Qualité Les concepts et définitions liés au Système de Management	Les principes de base du SMQ Le champ d'application de la norme ISO 9001 Approche processus et amélioration continue Les grandes phases dans un processus de certification ISO 9001 Planifier et mettre en oeuvre le SMQ Evaluer la performance et améliorer le SMQ	OUI

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		de la Qualité Appréhender le management de la qualité selon la norme ISO 9001 La démarche pour la planification, la mise en oeuvre et l'évaluation d'un SMQ Les outils nécessaires à la mise en place d'un SMQ Les exigences relatives aux SMQ Les démarches et l'amélioration continue des performances		
Facteurs humains	40H	Permettre aux participants d'assurer des fonctions de supervision en tenant compte des aspects Facteurs humains dans les différentes activités.	Introduction La performance humaine et ses limites Psychologie sociale Facteurs influençant la performance Environnement physique Environnement de travail Communication Erreurs humaines Dangers sur le lieu de travail	OUI
Technique d'audit/inspection	40H	Comprendre le cadre normatif et acquérir les techniques de conduite d'audits, identifier les compétences et qualités d'un auditeur/inspecteur et passer en revue le processus d'accréditation/habilitation des inspecteurs.	Introduction Cadre normatif Objectifs de l'audit Communication efficace Activités d'audit - Notification de l'audit/inspection - Préparation/customisation des listes de vérification - Préparation du programme de déroulement de l'audit/inspection - Conduite de l'audit et des réunions d'ouverture et de clôture - Tenue des réunions de débriefing des membres de l'équipe d'audit/inspection - Rédaction des fiches de notification de constatations et de recommandations ainsi que le rapport de synthèse - Préparation du dossier à soumettre au DG de l'AAC en vue de sa notification à l'organisme audité/inspecté - Examen, validation et suivi jusqu'à clôture du plan d'actions correctrices soumis par l'organisme audité/inspecté Exercices pratiques - De la préparation au suivi du plan d'actions correctrices	OUI
Résolution des problèmes de sécurité	40H	Comprendre les exigences relatives à l'identification et la résolution des problèmes de sécurité figurant dans les documents de l'Organisation de l'Aviation Civile Internationale (OACI) ainsi que leur transcription dans les règlements aéronautiques nationaux Maîtriser les procédures et processus recommandés par l'Organisation de l'Aviation Civile Internationale (OACI) pour l'identification et la résolution des problèmes de sécurité Elaborer et mettre en oeuvre des outils d'identification et de résolution de problème de sécurité Elaborer / évaluer	Introduction Coordination de la sécurité Principes d'identification de problèmes de sécurité Evaluations de la sécurité Etudes aéronautiques & Exemptions Mesures d'application Politique et procédure de résolution de problèmes de sécurité Evaluation de la formation	OUI

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		des études aéronautiques, demandes d'exemptions, mesures d'application, limitations, restrictions opérationnelles		
123 Base sûreté	40H	Comprendre la nature des menaces à l'encontre de l'aviation civile Travailler dans un aéroport et vous y déplacer en sécurité communiquer et coopérer avec d'autres services Reconnaître les armes, les explosifs et les articles interdits Comprendre les concepts de filtrage et de fouille des personnes et des bagages Réagir aux situations d'urgence à l'aéroport	Introduction Notions de base de la sûreté de l'aviation civile travailler à l'aéroport Contrôle de l'accès des personnes Procédures de sûreté à l'enregistrement Reconnaissance d'engins explosifs et d'autres articles réglementés Filtrage et fouille des personnes et de leurs sacs/bagages Protection des aéronefs stationnés Sûreté coté ville	OUI
Responsabilités administratives civiles et pénales	72H	Fournir des informations sur les droits et obligations applicables au personnel de supervision	Notions générales des Droits de l'homme Organisations et compétences judiciaires Droit pénal général Droit pénal spécial Procédure pénale Criminologie Techniques d'enquête criminelles Rédaction des Procès-verbaux Travaux pratiques	OUI
C. Formation initiale de spécialisation				
ICAO Government Safety Inspector – GSI AIR ou équivalent (Formations de certification et de surveillance continue des exploitants aériens – volet navigabilité et Formations de certification et de surveillance continue des organismes de maintenance)	15/112H	the attendees will be able to: Evaluate a Perspective Operators Pre-Assessment Statement Form; Identify Pre-Application Meeting Objectives; Review a mock AMO formal application and identify formal application meeting objectives; Evaluate portions of an applicant's Maintenance Procedures Manuals (MPM) and identify unacceptable errors; Evaluate an applicant's training curriculum and determine if initial approval can be granted; Evaluate the results of a main base inspection and determine inspector actions; Complete a mock AMO certificate and Standard Operating Procedures (SOPs) and identify items that must be included in the certification report; Evaluate narrative and reference statements; Evaluate and excerpt from a mock	Introduction Course Overview ICAO Obligations Pre-Application Phase - AMO Formal Application Phase – AMO Document Evaluation Phase: Statement of Compliance – AMO Document Evaluation Phase: AMO Procedures Manual – AMO Document Evaluation Phase: Maintenance Procedures and the Quality System – AMO Document Evaluation Phase: Training Programme – AMO Demonstration and Inspection Phase – AMO Certification Phase – AMO Pre-Application Phase – Air Operator Formal Application Phase Document Evaluation Phase: Maintenance Control Manual – Air Operator Document Evaluation Phase: Maintenance Programme – Air Operator Document Evaluation Phase: Minimum Equipment List – Air Operator Demonstration and Inspection Phase: Aircraft and Equipment – Air Operator Demonstration and Inspection Phase: Facilities – Air Operator Demonstration and Inspection Phase: Demonstration Flights – Air Operator Certification Phase – Air Operator	OUI



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		operator's Maintenance Control Manual; Evaluate a mock operator's proposed Minimum Equipment List (MEL) and identify Configuration Design Limitations (CDL); Evaluate an inspection report from a mock operator's conformity inspection; Identify recommendations involving inspector observations/reports of demonstration flights; and Complete a mock operator's certificate and SOPs and identify items to include in the certification report.		
Approbations opérationnelles spécifiques (RVSM, EDTO, LVO, LVP, MNPS, PBN, EFB) – aspect navigabilité	10J	Comprendre le concept d'opérations d'exploitation spécifique et maîtriser leur processus d'autorisation/approbation Ce cours décrit le processus d'approbation des opérations spécifiques suivantes : RVSM• EDTO• LVO/LVP• EFB• MNPS• PBN	1. RVSM• Historique• Approbation opérationnelle RVSM • Documents techniques• Conclusion2. EDTO• Introduction au concept• Approbation opérationnelle • Opérations en vol• Maintenance• Conclusion3. LVO/LVP (CAT II/CAT III) • Concept• Concept• Réglementation• Infrastructures aéroportuaires• Eligibilité de l'aéronef• Qualification du personnel navigant technique • Approbation de l'exploitant4. EFB• Introduction au concept• Description de l'EFB• Approbation opérationnelle • Conclusion5. MNPS6. PBN• Processus d'approbation opérationnelle ; • Eligibilité des aéronefs ; • Procédures opérationnelles et formation des équipages ; • Base de données de navigation ; • Demande d'approbation PBN et documentation ; • Processus simplifié ; • Vols océaniques et les vols continentaux dans les zones• Spécifications en croisière pour les vols continentaux ; • Spécifications dans les zones d'approche TMA; • Spécification RNP APCH ; • Spécification RNP AR APCH.	OUI
Immatriculation des aéronefs (Aircraft Registration)	1J	The course provides a general overview on the matter for newcomers. It also delivers some in-depth information for specialists and highlights the reason for certain topics to be covered during registration of an aircraft.	ICAOAirworthiness (Initial and Continuing)Operational RequirementsObjectivesLegal basisProcess of registrationRegistrationAirworthinessNoiseRadiolInsuranceEmergency Locator TransmitterOperation SpecificationsDe-registrationExport Certificate of AirworthinessChange of Ownership	OUI
Programme d'entretien (Aircraft maintenance program)	2J	Familiarise candidates with TC Holder processes relating to maintenance programme (MP) developmentProvide an explanation of the principles underlying the TC processes, including maintenance steering group analysis, certification maintenance requirements, design requirements relating to scheduled maintenanceFamiliarise candidates with the processes associated with operator management of maintenance programmes	Introduction. A brief introduction to the international standards and regulations; the regulatory structure in the States relating to maintenance programmes based on European regulations; the continuing airworthiness requirements issued by EASA related to maintenance programmes; and continuing airworthiness management of an aircraft.Design Related Scheduled Maintenance Requirements. This module is intended to introduce the candidate to the processes which in the course of Type Certification, may lead to the development of scheduled checks and inspections necessary to maintain the type certification standard of the product, including the ALI's /CMR's /AD's etc.Maintenance Steering Group Analysis. The maintenance and inspection standards necessary to the economic viability as well as the essential airworthiness of the aircraft are derived during this process and as such this module is highly relevant to planners, technical services engineers, inspectors, managers and mechanics: an understanding of the concepts are equally relevant to the quality audit personnel who are required to audit the maintenance standards themselves. In this part the principles of the MSG-2 and MSG-3	OUI

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		including escalation and optimisation, component off-wing programmes, alignment checksFamiliarise candidates with the documents necessary for the effective management of maintenance programmes including the MRB report and MPDProvide an explanation for and illustrate the significance of the interactions between design requirements, maintenance programme development, maintenance standards and inspection standardsFamiliarise candidates with reliability programmes	philosophy will be discussed.In-Service Management of Maintenance Programmes. In respect of the airworthiness management task which requires operators to review the effectiveness of their maintenance programme on a regular basis: the economic issues cannot be easily isolated from safety issues however and this module endeavours to provide guidance in this area. In this module the following items will be addressed in detail:MRB/MPD, Sampling programs, Maintenance Scheduling Concepts (Block/Equalized/Flexible).Customization of the Maintenance programme, Bridging checks and low utilization maintenance programme and Escalations.Reliability Programmes. This module is intended to describe the principle processes associated with reliability programmes. The potential problems associated with the management and interpretation of the programmes are discussed and explored and the important issues associated with effective data management are also highlighted. The principle characteristics of effective reliability programmes are highlighted.	
Liste minimale d'équipements de référence/liste minimale d'équipements (MMEL/MEL)	1J	Understand the regulatory background applicable to the MMEL/ MEL Be able to explain the philosophy and purpose and role of the MEL Understand the requirements related to maintaining validity of the MEL Satisfy the requirements related to MEL competence Be able to interpret the MEL content in the context of multiple aircraft defects Understand the Minimum Equipment List restrictions Be able to assess the MEL complies with the Aircraft Configuration Understand the Operators MEL Procedures. Understanding MEL ownership and relationship to certification standards.	Abbreviations & Terms - MMEL Regulatory Background and compliance with ICAO - Considering MEL Related Events & Issuers - MEL Regulatory Background EASA - MEL Regulatory Background FAA - MMEL Introduction - MEL Purpose / Philosophy and Regulatory Intent - MEL Structure - MEL Development & Certification - MEL Sources, Aircraft Configuration and STC Impact - MEL Airworthiness & Operations - Considering MEL Operations Procedures - MEL Restrictions & Deferment Process - MMEL /MEL Amendments	OUI
Modifications et réparations majeures	3J	To provide attendees with an overview of Aircraft Maintenance Program obligations related to Continuing Structural Integrity Programme including Functional Elements and techniques to deliver effective oversight.	IntroductionDefinitions and AcronymsThe Beginning of EASA / FAA Joint CertificationCertification and Approval Process FAA /EASAThe EASA Certification ProcessThe FAA Certification Process ConsiderationsFAA & EASA Part 21 Aircraft Repair ConsiderationsDesign Aspects of AirworthinessEASA Modifications Minor & MajorIntroduction Role & Purpose of an STCSupplemental Type-Certificates and Modifications ImplementationStructure General IntroductionCS 25 Structural – Crashworthiness ConsiderationsStructural Integrity & Ageing Aircraft Structures and SystemsCS 25 – Safety Assessment CS25-1309Part 21 Subpart M – RepairsRepair Evaluation Guidelines (REG) and Repair Assessment Programme (RAP)Limit of Validity (LOV) of the Maintenance Programme and Evaluation for Widespread Fatigue Damage (WFD)	OUI

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Inspection sur l'aire de trafic (SAGA, SANA, SAFA)	4J	Fournir aux participants une connaissance appropriée sur le fond et les antécédents du programme SAFA (historique, dépositaires, but, utilisation...), Fournir aux participants une connaissance en profondeur sur les procédures d'inspection au sol SAFA, pour permettre aux Autorités de mettre en application un programme semblable Fournir des connaissances techniques en profondeur aux participants au respect des items inspectés et des écarts les plus communs identifiés, par la présentation de chaque item de la checklist Présenter sur le terrain, les procédures européennes réelles d'inspections SAFA sur un(des) exercice(s) d'entraînement pratique, Réaliser en tant qu'observateur des inspections SAFA en environnement réel	1. Qualification des Inspecteurs au Sol 2. Préparation de l'Inspection 3. Procédures d'Inspection Check-list inspection items – Flight Deck / Documentation Check-list inspection items – Cabin Check-list inspection items – Aircraft Condition Check-list inspection items – Cargo 4. Identification des Ecart 5. Suivi des Actions Base de données SAFA 6. Divers	OUI
2. FORMATION AVANCEES ET SPECIALISEES				
Marchandises dangereuses cat 6	40H	- Comprendre les principes généraux et les spécifications de la réglementation en matière de marchandises dangereuses- Sensibiliser et familiariser les inspecteurs AIR aux risques inhérents sur le transport aérien de marchandises dangereuses- S'assurer que les marchandises dangereuses sont transportées en toute sécurité- Comprendre et de maîtriser le processus de délivrance des autorisations et certificats en matière de marchandises dangereuses	Champs d'application Restrictions Classification identification Emballage Marquages à spécifications ONU Marque et étiquetage Documentation Exemple d'expédition Récapitulatif : Batteries au Lithium	OUI
Surveillance des opérations de location d'aéronefs (Oversight of Aircraft Leasing Operations)	40H	The attendee will be able to : • Develop processes and procedures to recognise, accept, approve and oversee operations with different cases of aircraft leasing arrangements. • Implement oversight	Evaluating air operator leasing arrangements application - Types of leasing arrangements - Responsibilities of State of registry and the State of operator with different types of leasing arrangements - Requirements and conditions for acquiring a leasing arrangement - Schedule of events and fees associated with leasing arrangements - Application of Article 83 bis for transfer of responsibilities	OUI

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		procedures for different cases of aircraft leasing arrangements. - Identify various categories of aircraft leasing and their implications on States and AOC holders' responsibilities with respect to personnel licensing, aircraft operations and airworthiness. - Identify necessary regulations and procedures to ensure compliance with Chicago Convention and its Annexes for various cases of aircraft leasing.	Approving proposed air operator leasing arrangements - Suitability of different types of leasing arrangements for AOC holders - Flight operations and licensing technical documentation, and airworthiness technical documentation required for review - Operational arrangements and maintenance operations required for inspection/demonstration - Verification of Lease agreement and supporting documents - Steps for approval of proposed leasing arrangement - Surveillance of air operator leasing arrangements - Types and frequency of inspection required - Standard procedures for conducting operations inspection - Process for resolution of safety issues	
Règlementation des systèmes d'aéronef sans pilote (Unmanned Aircraft Systems Regulations)	8H	An overview of the regulatory framework from ICAO Development of regulations UAS platforms, their capabilities and deficiencies Accommodating UAS operations within the current aviation infrastructure Typical use cases The requirement for the operator to demonstrate flight safety and how this is achieved Implementation of technology to help control risks and hazards Provision of an environment for safe operation	An overview of the regulatory framework from ICAO Development of regulations UAS platforms, their capabilities and deficiencies Typical use cases The requirement for the operator to demonstrate flight safety and how this is achieved Implementation of technology to help control risks and hazards Provision of an environment for safe operation (u-space)	OUI
Qualification/Familiarisation générale (GenFam) sur type aéronef (en fonction de la flotte de la RDC)	45J/5J	Familiariser à un type d'aéronef dans le but de le superviser. Ce module de la formation initiale a été conçu pour donner des connaissances de bases sur les principaux systèmes d'un type ainsi que les bonnes pratiques de maintenance s'y afférant.	Ce module porte sur les points suivants : - Description des principaux systèmes : - Cellule ; - Moteur ; - Electricité & avionique ; - Précautions de sécurité propres au type d'aéronef ; - Pratiques de maintenance, outils spéciaux et équipements de test spécifiques au type d'aéronef.	OUI
Systèmes avioniques (GPS System, Mode S transponder/TCAS, GPWS, Weather Detection Equipment, Flight Data Recorders, Cockpit Voice Recorders, EFIS/EICAS, ...)				OUI
Introduction à la certification des aéronefs lourds (CS-25 Large Aeroplane Certification)	4J	provide the attendee with a basic understanding of the typical certification challenges when performing changes on Large Aeroplanes	Regulatory Background (ICAO, JAA, FAA, EASA) Working with EASA EASA Part 21 Certification Process CS-25, CS-AWO, FAR-25 and relation to each other Classification of changes Reading and understanding a Type Certification Data Sheet to Changed Product Rule (CPR) Type Certification Basis System Safety Analysis Systems and Avionics CS 25 Subpart F Common AMC Material and other related	OUI

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			certification Guides o Cockpit arrangement o Typical certification challenges o Enhanced Airworthiness Program for Aeroplane Systems and how does it affect us. o Cabin: o Refurbishment and LOPA changes o Cabin Topic o Crashworthiness Handbook and topic o Flammability Structure o General Introduction o Introduction, Fatigue and Damage Tolerant, Crashworthiness Certification Topic o Certification Program o Compliance showing o Configuration control o Sampling for tests, guidance material available o Flight Manual Supplement o Instruction for Continued Airworthiness (ICA) o Other related Topic o RTCA and EUROCAE Documents such as ED-14, DO-160, DO-178, etc. o HIRF and Lightning Certification. o OEM provided Documentation o Other standards such as SAE, MIL etc. o Certification Program o Flight Testing o Conditions for flight/Permit to Flight	
Gestion du maintien de la navigabilité des aéronefs lourds (Continuous Airworthiness Management for Large Aircraft)	2J	The course introduces the delegates to the Regulatory Background, Roles & Responsibilities associated with the Continuing Airworthiness Management of Large Aircraft. The attendees will- achieve a solid understanding related to the role of Continued Airworthiness Management (CAM)- be able to engage in a more practical way with Part M Functionality and to avoid or mitigate problems- be able to use the regulation to proactively manage the Continuing Airworthiness (CA) of your aircraft- Understand the activities which support the analysis of Safety Data including SB's and AD's- Understand the purpose of STC's and how they are integrated into the maintenance Program- Understand the roles and responsibilities within the various CAMO groups including Reliability, Technical Records, Engineering, & Maintenance Planning	Introduction Abbreviations Regulatory Structure EASA Part 145 Overview Continuous Airworthiness - The Role of Part M Airworthiness Principles & Continuing Airworthiness Contract & Subcontract Management Organisations Approval Ratings SMS In a CAMO Environment Managing Competencies in a Part M Environment Part M Subpart B - Accountability Part M Subpart C - Continuing Airworthiness MSG-3 and the introduction of the Zonal Inspection Concept Approved Maintenance Program Considering Different types of Inspection GVI / DVI / SI Instructions For Continuing Airworthiness Airworthiness Limitations & Certification Maintenance Tasks General Introduction to all Part 21 Subparts Supplemental Type Certificates (STC) The Difference Between STC and PMATSO / ETSO Introduction Management of EASA Approved Mods and Repairs AD, Modification and STC Considerations Maintenance Oversight and Compliance with FAR 25 / CS 25 ACAM Key Risk Elements Review Temporary Extension and Escalation / De-Escalation How good are your Corrosion Control assessment and Maintenance Procedures?	OUI
Système d'interconnexion de câblage électrique (Electrical wiring interconnection systems - EWIS)	1J	The attendees will be able to: give a simple description of the historical background and the elements requiring a safety consideration, using common words and showing examples of non-conformities, apply typical terms used in EWIS and be familiar with the basic elements of the practical application of EWIS issues.	Safe handling of Aeroplane Electrical Systems Line replaceable units (LRU) Tooling Troubleshooting procedures and electrical measurement Construction and navigation of typical aeroplane wiring system overhaul or wiring practices manuals Types of inspection Human factors in inspections Zonal areas and typical damage Contamination sources, materials, cleaning and protection procedures Correct identification of different wire types Inspection criteria and damage tolerance Repair and preventative maintenance procedures Procedures to identify, inspect and find the correct repair for common types of connective devices found on typical aeroplanes Procedures for replacement of all parts of common types of connective devices found on typical aeroplanes	OUI
Sécurité des réservoirs de carburants (Aircraft fuel tank safety - FTS)	1J	To understand the concept of fuel tank system ALI and CDCCL	Abbreviations - FTS – Background: the explosions of mixtures of fuel and air, the behaviour of those mixtures in an aviation environment, the	OUI

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			effects of temperature and pressure, energy needed for ignition etc, the 'fire triangle' - Regulatory Overview: SFAR 88 (Including requirements relating to CDCCL) of the FAA and JAA Interim Policy INT POL 25/12: ignition prevention program initiatives and goals, to identify unsafe conditions and to correct them, to systematically improve fuel tank maintenance), JAA Temporary Guidance Leaflet TGL 47. - Basic elements of the fuel tank safety: Understanding of the background and the concept of fuel tank safety, Interpreting ICAW Instructions for continuing airworthiness. - Case Studies Accidents & Incidents - The need for Mitigation Strategies: Ignition source prevention. - FRS - Flammability Reduction Systems when installed: reason for their presence, their effects, the hazards of an FRS using nitrogen for maintenance, safety precautions in maintenance/working with an FRS. - Recording & Reporting – The Link to SMS	
Masse et centrage d'aéronef (Aircraft weight and balance)	40H	Summarize the basic principles of flight, related to aircraft weight and balance Recognize the terms used in the field Identify the various weights used in the compilation of a load sheet Analyze the use of indexes and % Mean Aerodynamic Chord (MAC) Recognize the design of trim and table charts	Basic theory of flight Aircraft weights and indexes at different flight stages Initial aircraft weights and indexes Aircraft operating and structural weights Aircraft limiting weights Theory of balance Balance theory applied to aircraft Drop line trim chart and its function The manual load/trim sheet and the standard IATA EDP Load/trim sheet compilation	OUI
Programme de fiabilité des aéronefs (Aircraft reliability program)	2J	The attendee will be able to : demonstrate an understanding of reliability programmes necessary for the maintenance programme for MSG-3 aircraft understand the responsibilities of the actors in initial and continuing airworthiness, the basic mathematical principles in relation to reliability, and the relationship between the time to failure distribution, the reliability function, and the hazard rate. understand the meaning of escalation programmes, and be able to set up an escalation package.	Regulatory requirements Concept of Reliability centered maintenance/MSG 3 Theory on Statistical methods and Failure distribution functions Development of Maintenance Programme The types of reliability analysis required for an effective programme Administration and Management of the Reliability Programme Key Elements of a Reliability Programme Escalation of maintenance tasks Small Fleet Reliability Approval of the Reliability Programme	OUI
Analyse des données de vol (flight data monitoring)	2J	To provide the delegates with a strong understanding of the regulatory requirements, operational processes and practical implementation of a FDM/FDA programme fully compliant with ICAO SARPS	Introduction Acronyms and Abbreviations Definitions Regulatory Requirements Objectives of an Operator's – FDM Flight Data Monitoring (FDM) Gap Analysis Integrating Flight Data Monitoring into the Safety Management System (SMS) How the Operator uses an FOQA /FDM Program – Benefits Implementing FOQA /FDM Program Flight Data Analysis Equipment Requirements FDM Roles and Responsibilities within the AOCC Developing FDM Procedures Establishing event trigger limits De-identifying Data How to Review Caution and Warning Events What Actions are Taken from the Cumulative Event Data	OUI

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Surveillance des tendances du moteur (Engine trend monitoring – ETM)	1J	Develop a deep understanding of the elements related to ECTM. To be able to develop and Manage and Effective ECTM process within your organisation.	Obligations under the Chicago Convention ICAO SARPs ICAO Organisation Structure Expanded ICAO Universal Safety Oversight Audit Programme Processes and Audit Results Establishment and Management of the Safety Oversight System ICAO Safety Audit Oversight Ma	OUI
Gestion des risques liés à la fatigue (Fatigue Risk Management Systems - FRMS)	2J	– To understand the exposure, implementation challenge and effective management of a Fatigue Risk Management System.– To achieve a deep understanding of the associated regulations and requirements, in particular how an FRMS integrates within the organisations SMS.– To understand the tools and mechanisms for gathering and analyzing FRMS data within the Maintenance Repair Organisation (MRO).– To consider best practice development of an effective reporting policy.	IntroductionContentsTerminology and AbbreviationsFRMS – How to Assess your Organisations StatusIntroduction to the Concept of Fatigue Risk Management SystemsScience of Sleep and Foundations of FatigueUnderstanding the challenge of migrating from a Compliance Based FRMS to a Performance Based FRMSConsidering the Challenge of Developing an Open and Effective Reporting CultureConsidering the Steps to Implement an Effective FRMS within your Organisation Integrating FRMS within an SMSFRMS Systematic ManagementFRMS DocumentationFRMS TrainingPromotion of FRMS within the context of a "Culture of Trust"Performing a "Gap Analysis" or "Full Audit" of an FRMSCourse Close Debrief and Review	OUI
Aircraft Inspection Techniques	2J	To provide a detailed understanding of the best practice aircraft maintenance inspection techniques in a relevant and practical way. To develop a detailed awareness regarding the need for effective aircraft maintenance inspection in all areas of Maintenance including Airframe, Engines, and Structure.	Introduction - The Importance of Aircraft Inspection Abbreviations Airworthiness Inspection - The Role of Part 145 B1& B2 Certifier Introduction to MSG-3 Considerations Related to MSG-3 Aircraft Inspection Standards Considering Inspection Tooling use and Maintenance & Human Factors Related to Inspection Activities Causes of Corrosion Types of Corrosion Corrosion Prevention Control Program CPCP Review How good are your Corrosion Control Assessment and Maintenance Procedures? Aircraft Fuel Tank Microbiological Concerns Considering Different types of Inspection GVI / DVI / SI Performing an Effective Aircraft Maintenance Inspection Inspection Performance & Staff Competence Development of Competence related to Practical Inspection Training Inspection Processes related to Engines Composite Damage Inspection and Tolerances Tapping Inspection General Guide to Effective Aircraft Inspection	OUI
Planification de la production – gestion et surveillance (Production Planning Management and Oversight)	1J	To achieve a detailed understanding of the regulatory environment related to EASA Part 145 Production PlanningBe able to explain the roles and responsibilities related to the interface between Maintenance and Production Planning.Be able to explain and promote a comprehensive understanding of the role of Production Planning in particular to include all the	AbbreviationsMaintenance Planning overviewThe Basics of Maintenance Planning-The Approved Maintenance ProgramRegulatory OverviewPost Holder Responsibilities and RelationshipsManaging CompetenciesAviation Quality Systems Pt 145Understanding the Quality Control Process in Production PlanningAccidents and Incidents the link to Safety - Human Factors and Production PlanningContinuing Airworthiness Part M – Part 145 Interface And ResponsibilitiesProcedures Information and PracticesContract & Subcontract ManagementThe Role of SMS in Production Planning	OUI

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		fundamental activities. Production Planning Environment.To achieve an understanding regarding industry best practice techniques to deliver efficiencies as well as effective Production Planning.To be able to promote an understanding the Role of Safety Management Systems both within base maintenance in general as well as in the area of Production Planning particularlyUnderstanding the various challenges which face an organisation to optimise the Production Planning Process.Identify Specific issues which are both organisational and Industry specific.	
Procédures de gestion et d'inspection des magasins (Stores Management & Inspection Procedures and Processes)		a) Understand the processes which drive effective management of a Part 145 Compliant Tool Store. b) Understand the process of managing documentation related to airworthiness and tooling and calibration control. c) Understand the principles of Electrostatic Inspection. d) Have confidence in full compliance within the supply chain and the ability to perceive opportunity to improve & develop the Tooling Store Abbreviations & Terms EASA Part 145 Tooling Store General Introduction Introduction to Aircraft General Tooling Considerations Related to Part 145 Aviation Tooling Control Annual & Periodic Tooling Inspection Stores Tooling & Equipment Issue and Return Inspection Requirements Tooling Calibration Management & Control Process Introduction to Foreign Object Debris (FOD) – Foreign Object Damage Introduction & Awareness Electrostatic Sensitive Discharge Best Practice House Keeping, Cleanliness and Safety The Use & Control of Alternate Tooling	OUI
Enregistrements techniques d'aéronef (Aircraft Technical Records)	2J	Understand the role of Technical Records within the CAMO group and 145 organisation Understanding how an effective technical records system can protect asset valueUnderstand the regulations which drive both Part M and Part 145 Technical Record RequirementsBe able to explain the concept of Airworthiness and the need for Continuing Airworthiness RecordsAchieve an awareness of both requirements and best practice related to the management of Aircraft Technical Records Minimise the likelihood of error due to lack of Fundamentals of Continuing Airworthiness Aircraft Certificates & PermitsContinuing Airworthiness RecordsMaintenance Records Records Documentation & Control Requirements	OUI

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		understandingPrepare for working in a technical records environmentUnderstand the need for Self-Monitoring Procedures (SMP) and the role of Quality Control within the Technical Records Environment		
Programme de prévention et de contrôle de la corrosion des aéronefs (Aging Aircraft - Corrosion Prevention and Control Program)	2J	The attendees will :- have a comprehensive understanding of methodology to ensure compliance with Continuing Structural Integrity Programme-understand the Roles and responsibilities associated with the management of Corrosion Protection and Control Program (CPCP) and relationship with MSG-3- be able to effectively assess both the regulatory compliance and suitability of operators' Maintenance Programs-be able to use the regulation to proactively manage the oversight of regulatory compliance related to the CPCP control processes-Understand the activities which support the analysis of Safety Data including SB's and AD's	Definitions and AcronymsContinuing Structural Integrity – IntroductionWhat are Supplemental Structural InspectionsCauses of Corrosion -Types of CorrosionCorrosion Prevention Control Program CPCP ReviewCorrosion Prevention and Control Programme (CPCP) Requirements FAA / EASABaseline CPCPConsidering CPCP AD'sCPCP Incorporation into the AMPHow good are your Corrosion Control Assessment and Maintenance Procedures?Aircraft Fuel Tank Microbiological ConcernsSupplemental Structural Inspection Programme (SSIP)Service Bulletin Review and Mandatory Modification ProgrammeRepair Evaluation Guidelines (REG) and Repair Assessment Programme (RAP)Limit of Validity (LOV) of the Maintenance Programme and Evaluation for Widespread Fatigue Damage (WFD)Considerations Related to MSG-3 Aircraft Inspection StandardsConsidering Different types of Inspection GVI / DVI / SIPPerforming an Effective Aircraft Maintenance InspectionInspection Performance & amp; Staff CompetenceSupplemental Type-Certificates and Modifications ImplementationGuidelines for the development of a corrosion control programmeGuidelines for the development of an SB review and mandatory modification programme	OUI
Control non destructif (Non destructive test - NDT)	4J	Describe a systematic NDI evaluation process that can be utilized by the ASI in performing job functions relating to NDI. Apply the systematic NDI evaluation process to ASI job functions using the NSI checklist. Identify NDI methods and describe their application on aircraft material and components. Apply the NDI checklist to evaluate the application of NDI methods to aircraft materials and components	• The Certification Process • Visual Inspection • Penetrant Inspection • Magnetic Particle Inspection Eddy Current Inspection • Ultrasonic Inspection Radiographic Inspection Audit/Evaluation and Surveillance	OUI
Plan d'intervention d'urgence (Emergency réponse plan - PIU/ERP)		The attendee will be able to: Describe your company responsibilities within the regulatory framework governing emergency management Describe the stages in the planning required for effective emergency management and recovery	What can be seen as an emergency? What can be seen as a crisis? Why create an ERP? Regulatory background of ERP Steps in the planning process Emergency management roles and responsibilities in the organization Determination of internal and external stakeholders Effective leadership during a crisis situation Scaling down and re-establishing operations following an emergency response Emergency response training and exercise	OUI

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		Implement an Emergency Response Plan Identify the skills required is an emergency response situation Ensure ERP training and exercises are performed in your organization Understand the relationship between SMS and ERP.	Situation room and call center Crisis communication Real life cases are presented as learning experience	
Familiarisation aux enquêtes sur les accidents et incidents d'aviation	5J	The attendee will be able to perform small scale Safety Investigations as part of a team within an Organisation	• Understanding Safety• Hazards and Risks• The process of investigation:• Planning• Collecting Data• Analysing data• Drawing Conclusions• Making Recommendations• Writing a Report	OUI
ICAO Government Safety Inspector – Air Cargo Certification	5J/31H	Identify the standards and regulations required for certification and continued safety oversight of air cargo operations, and the State's responsibilities for continuing safety oversight of certificated air cargo operators. Specify the requirements of an air cargo operator's manual system and applicable documentation. Describe the CAA inspector's role in conducting demonstrations and inspections to ensure air cargo operations comply with applicable CAA regulations, guidance and safe operating practices. Specify the requirements for approving a training programme for an operator adding air cargo transport to its operations. Describe the CAA inspector's responsibilities as they apply to evaluating air cargo operations during transport of special cargo and dangerous goods. Identify the major aspects of the Certification Phase for air cargo operations. Describe how to prepare and issue the amended OpSpecs. Identify CAA responsibilities for continuing safety oversight of air cargo operations.	Introduction Fundamentals of Transporting Cargo by Air Certification and Oversight of Air Cargo Operations Evaluation of Air Cargo-Related Manuals and Documents Training Programmes for Air Cargo Operations Demonstrations and Inspections of Air Cargo Operations Special Cargo and Dangerous Goods Certification Documents for Air Cargo Operations	OUI
ICAO Government Safety Inspector – GSI PEL ou équivalent	15J/120 H	The attendee will be able to : Establish and maintain a CAA PEL system; Obtain knowledge testing services from an outside provider; Manage a knowledge testing	Introduction ICAO Licensing Obligations The PEL System Medical Certification Process Designate an Aviation Medical Examiner Examining Principles: Knowledge, Skill, and Language Proficiency Deciding to Develop and/or Obtain Licensing Tests Conduct Application Phase: Determine Application's Acceptability Conduct Evaluation Phase: Determine Applicant's Eligibility Conduct Demonstration Phase:	OUI

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		system;Evaluate a license application for completeness and accuracy;Determine if an applicant is eligible for the license sought;Administer, grade, and document the results of knowledge tests;Conduct flight crew license skill tests;Conduct maintenance technician skill tests;Determine the appropriate document to be issued based on the skill test results;Validate and convert foreign licenses; andSuspend or revoke a license.	Manage Knowledge Test AdministrationConduct Demonstration Phase: Manage FCL Skill Test AdministrationConduct Demonstration Phase: Manage AMT Skill Test AdministrationConduct Issuance Phase: Issue Appropriate DocumentValidation and Conversion of a Licence Surveillance of Licensed Aviation PersonnelCompliance and Enforcement Action	
Certification des organismes de formation aéronautique (Approval of training organization)	5J/ 31H	The attendee will be able to: Identify the tasks executed by CAA ATO Office; Determine training activities that require ATO approval; Evaluate ATO Documents; Carry out Training Organization Approval Inspection; and Issue the appropriate ATO approval documents.	Introduction Establishment of ATO Inspector office Evaluation of ATO Documents Inspection and Approval of Training Organization Approval of Foreign ATO	OUI
ICAO Government Safety Inspector – GSI OPS ou équivalent (Formations de certification et de surveillance continue des exploitants aériens)	14J	the attendee will be able to: Evaluate perspective Operators Pre-assessment Statement forms for acceptability; Identify Pre-application Meeting Objectives; Conduct a cursory review of the packages and, from the review, evaluate the quality of one package and identify formal application meeting objectives for the other package; Evaluate narrative and reference statements; Conduct an in-depth evaluation of an excerpt from a mock Operations Manual; Evaluate a sample curriculum segment from a mock operator's training programme; Evaluate an excerpt of a mock operator's Cabin Attendant Manual for acceptability; Evaluate a mock operator's A300 Aircraft Operating Manual for acceptability;	Evaluating a Pre-Assessment Statement Conducting a Pre-Application Meeting Conducting a Formal Application Meeting Evaluating a Compliance Statement Evaluating Operations, Training, Cabin Attendant and Aircraft Operating Manuals Evaluating a Minimum Equipment List (MEL) Evaluating Loading and Handling and Performance Planning Manuals Evaluating Other Certification Manuals and Documents Inspecting Main Base and Station Facilities Inspecting Training Programs and Training Facilities Evaluating Emergency Evacuation and Ditching Demonstrations Evaluating Demonstration Flights Issuing the Air Operator Certificate	OUI

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		Evaluate a mock operator's proposed Minimum Equipment List (MEL) and Configuration Design List (CDL); Verify submitted performance planning data for acceptability; Evaluate an excerpt of a mock operator's Aircraft Loading and Handling Manual for acceptability and identify errors; Evaluate excerpts from the mock operator's Exit Row Seating programme; Evaluate the results of an inspector's main base inspection for acceptability and determine inspector actions; Evaluate the inspector's observations of a training programme and facilities for acceptability and determine the correct inspector actions; Evaluate emergency evacuation demonstration scenarios to determine if they were satisfactory and provide reasons for your decision; Determine appropriate recommendations for scenarios involving inspector observations/reports of four demonstration flights and reasons for the recommendations; Complete a mock operator's certificate and Standard Operating Procedures (SOPs) and identify items that must be included in the certification report.		
Prise de décision basée sur les données d'aviation (Aviation Data-Driven Decision Making (AD3M))	Part 1 : 1 day Part 2 : 5 days	Participants who complete the AD3M Programme (Part 1 and Part 2) will be able to apply best practices of data-driven decision making in aviation and define suitable key performance indicators (KPIs) in civil aviation sectors. Upon completion of the Programme, participants will be able to apply aviation data-driven decision making principles and methods in their professional roles.	The AD3M Programme is designed to prepare aviation professionals to generate reports and interpret results for making effective decisions, managing risk and setting priorities for different civil aviation activities, operations, or procedures. The AD3M Program consists of two parts, a prerequisite online course, Part 1: Fundamentals of Aviation Data-driven Decision Making (AD3M), to explore the fundamental concepts behind data-driven decision making, followed by a classroom course, Part 2: Application of Aviation Data-driven Decision Making (AD3M), to apply the concepts to practical scenarios and real-life situations. Aviation Data-driven Decision Making (AD3M) - Part 1 - Online Course Module 1 - Introduction Module 2 - Data management Module 3 - Metrics and Indicators Module 4 - Basic Statistical Analysis Module 5 - Visualization and Reporting Aviation Data-driven Decision Making (AD3M) - Part 2 The Problem with Data- Data challenges- Data governance- Data collection/development (data quantity) - Data quality * Exercise 1.1: What Are Your Data Challenges? * Exercise 1.2.A: Challenges Related to	OUI

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			Data Governance * Exercise 1.2.B: Challenges Related to Data Governance * Exercise 1.3.A: Challenges Related to Data Quantity * Exercise 1.3.B: Challenges Related to Data Quantity * Case Study 1.4 - What Caused the Data Quality Problem? * Exercise 1.5 - Part 1: Challenges Related to Data Quality * Exercise 1.5 - Part 2: Challenges Related to Data Quality Data Visualization and Reporting- Fundamentals and best practices- Misrepresentation and misinterpretation of data- Helpful Rules * Exercise 2.1: Safety Analysis Developing Indicators- Safety indicators - an overview * Exercise 3.1: Developing Indicators		
Analyse des causes profondes (Root Cause Analysis)	2J	The attendee will be able to: Summarize the problem definition process Identify when to use which type of tools for problem definition Describe the principles of root cause analysis Summarize the root cause requirements and guidance under ICAO Determine the root cause(s) Describe the key concepts of a corrective action plan Describe the corrective action process	Background of RCA and the need for a structured process Relative roles and responsibilities The process of RCA An overview of the various tools and techniques in common use Problem identification, clarification and definition Determination of likely root causes Testing of theories Determination of suitable corrective action(s) Implementation and verification Process analysis, data collection and display techniques		OUI
European Co-ordination center for accident and incident reporting systems (ECCAIRS)	5J	The attendees will be able to: - Understand ADREP taxonomy - Understand reporting requirements as per ICAO Annex 13 - Aircraft Accident and Incident Investigation - Understand safety data collection, analysis and exchange requirements as per ICAO Annex 19 - Safety Management and - Learn to use ECCAIRS software suite to perform the above-mentioned tasks	What is ECCAIRS Why ECCAIRS The ADREP Taxonomy The ECCAIRS Dictionary Browser - Access and structure Safety data input procedures System queries Event analysis Event classification and categories Other ECCAIRS applications		OUI
Environnement (bruit, émissions de moteur d'aviation, CORSIA)		comprendre les mesures à prendre en compte pour la protection de l'environnement	Bruit des aéronefs - Source de bruit des aéronefs - Certification acoustique des aéronefs - Gestion du bruit dans les aéroports - Réduction du bruit dans les aéronefs Emissions de moteurs d'aviation - Gaz à effet de serre - Réduction des émissions CORSIA - Introduction au CORSIA et à la résolution A39-3 - Présentation du système de suivi, de compte-rendu et de vérification (MRV) - Unités d'émissions - Registres		OUI
Instructeur (Training instructors course - TIC)	5J	The attendee will be able to: Complete course preparation procedures using corresponding checklists Apply instructor competencies in the delivery of a classroom	Part 1:1. Prepare the Training Environment 2. Manage the Trainee3. Conduct a Training Module4. Prepare a Course Evaluation Report Part 2:1. Course Introduction 2. Training Preparation 3. Training Delivery4. Training Reports		OUI

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Développeur de cours (training developers course - TDC)	10J/60H	training session Apply the relevant methods and tools to evaluate trainees and the training course The attendee will be able to: - Conduct a preliminary study; - Conduct a job analysis; - Conduct a population analysis; - Design the curriculum; - Design the modules; - Establish validity and reliability of tests; - Establish validity of a training course.	Introduction - Preliminary Study - Job Analysis - Population analysis - Design of Curriculum - Design of Modules - Production and Developmental Testing - Validation	OUI
Instructeurs des formations en cours d'emploi (On-the-job training instructor)	5J/30H	The attendee will be able to: 1. Identify individual training needs 2. Plan OJT sessions 3. Conduct OJT sessions 4. Assess trainee's performance 5. Write a training report 6. Evaluate an OJT program	Introduction - Identifying Training Needs - Planning OJT Sessions - Conducting OJT - Assessing Trainee's Performance - Evaluating OJT	OUI
ICAO USOAP CMA – LEG/ORG	8 H	The attendee will be able to Part 1: Legislation (LEG) • Recognize the essential content of the protocol questions (PQs) in primary aviation legislation and civil aviation regulations and identify the more challenging PQs. • Relate the content of the PQs to the associated ICAO documents, such as the Convention on International Civil Aviation (Chicago Convention), Annexes to the Chicago Convention, and relevant guidance material. • Demonstrate the application of auditing techniques and methodology learned from this computer-based training. Part 2: Civil Aviation Organization (ORG) • Explore the essential content of the protocol questions (PQs) in the area of civil aviation organization(s) • Relate the PQs to the associated ICAO documents, such as the Convention on International Civil Aviation (Chicago Convention), Annexes to the Chicago Convention, and relevant guidance material. • Discover key information	Part 1: Legislation (LEG) course has the following modules: • Course Introduction • The Chicago Convention, its Annexes and State's Primary Aviation Legislation • The Chicago Convention, its Annexes and State's specific Operating Regulations • Other Instruments • Enforcement • Empowerment of Inspectors • Practice Quiz • Course Summary • Final Exam Part 2: Civil Aviation Organization (ORG) course has the following modules: • Course Introduction • Civil Aviation Organization • Financial Resources • Technical personnel qualification and experience • Technical personnel training • Discovery Activity: Technical guidance, tools and the provision of safety critical information • Practice Quiz • Course Summary • Final Exam	OUI

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ICAO USOAP CMA – AIR	6H	to seek and verify. • Review shortcomings frequently discovered during a CMA audit. The attendee will be able to: Recognize the essential content of Protocol Questions (PQs) in the area of airworthiness (AIR). Become familiar with Chicago Convention Annexes and airworthiness-related guidance material Discover key information to seek and verify Review shortcomings frequently discovered during a CMA audit.	Course Introduction State's Legislation Regulations Organization; Equipment and Documentation of the Airworthiness Inspection Division Procedures for Airworthiness Inspectors/Engineers and Industry Guidelines Aircraft Registration Airworthiness Documents and Related Activities Airworthiness-Related Aspects for Air Operator Certification Approval of Maintenance Organizations Airworthiness Surveillance and Resolution of Safety Deficiencies Practice Quiz Course Summary Final Exam	OUI
ICAO USOAP CMA – PEL	6H	The attendee will be able to: Recognize the essential content of Protocol Questions (PQs) in the area of Personnel Licensing and Training (PEL) Become familiar with Chicago Convention Annexes and guidance material related to PEL. - Annex 1 and 6 - ICAO Documents 9379 / 9835 / 9841 Discover key information to seek and review frequent shortcomings to verify during a USOAP CMA audit in the area of PEL. Demonstrate auditing techniques and methodology in the area of PEL.	Course Introduction State's Legislation Regulations for the PEL System Establishing a Personal Licensing System Processing of Licenses and Ratings Medical Assessment Evaluation and Testing of Aviation Personnel Language Proficiency Requirements Certification and Surveillance of Approved Training Organizations Licensing of Aircraft Maintenance Technicians / Engineers / Mechanics Practice Quiz Course Summary Final Exam	OUI
ICAO USOAP CMA – OPS	6H	The attendee will be able to: Recognize the essential content of the Protocol Questions (PQs) in the area of aircraft operations (OPS), including dangerous goods (DG), and identify the more challenging ones Examine the Protocol Questions for the associated ICAO documents, including Annexes 6 and 18 of the Chicago Convention, aircraft operations and dangerous goods-related guidance material Demonstrate the application of auditing techniques and	Introduction State's Legislation Regulations Aircraft Operations Organization Documents Evaluation of AOC Applicant Issuance of the AOC Surveillance of Air Operators Safe Transport of Dangerous Goods by Air Practice Quiz Course Summary Final Exam	OUI

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		methodology in the area of aircraft operations, including dangerous goods		
Management de la conformité aux SARPs OACI	5J/30H	The attendee will be able to: Develop a strategy to comply with ICAO SARPs Manage the implementation of national requirements Monitor compliance with ICAO SARPs	Introduction Developing a Strategy to comply with ICAO SARPs. Managing National Requirements Implementation Monitoring compliance with ICAO SARPs	OUI
Responsables de la supervision de la sécurité (safety oversight managers)	14J	The attendee will be able to: Understand the role and responsibilities of a safety oversight manager Understand the ICAO Standards and Recommended Practices (SARPs) and other national civil aviation regulations relating to safety oversight Update your organisation's safety oversight system	Obligations under the Chicago Convention ICAO SARPs ICAO Organisation Structure Expanded ICAO Universal Safety Oversight Audit Programme Processes and Audit Results Establishment and Management of the Safety Oversight System ICAO Safety Audit Oversight Manuals Management of Aircraft Operators Selection and Recruitment of Technical Staff for Civil Aviation Development of Staff Training and Competence Policy Regulatory Framework Inspectors' Handbooks National Aviation Regulatory Authority Organisation Structure and Roles: Powers and Enforcement Quality Systems and Safety Management ICAO Aircraft Incident/Accident Investigation Audits Management of Aerodrome Safety Air Traffic Services Safety Management and Audits Civil Aviation Authority of Singapore's Safety Management System Designation and Delegation Policy Operations and Management of Personnel Licensing • Management of Cabin Safety Operations • Legal Principles Underlying Safety Oversight Functions • Bilateral Agreements and Article 83 Bis: Transfer of Responsibility • Success Factors: Managing Global and Corporate Strategies • Best Practices in Resource Management • Strategic Business Planning for Managers • Management of the Regulator and Industry Interface • Management of Aircraft Incident/Accident Investigation • Management of Dangerous Goods • Understanding and Managing Human Factors in a Regulatory/Operational Aviation Environment	OUI

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