



**Agenda Item 5: Follow-up of the implementation of training activities in air navigation, safety and other aviation areas in the Region**

**FOLLOW-UP OF THE IMPLEMENTATION OF TRAINING ACTIVITIES IN THE AGA/AOP AREA**

(Presented by the Secretariat)

**SUMMARY**

This working paper presents information on training activities related to the AGA/AOP area carried out since the CIAC/18 meeting and training activities planned to take place in 2022.

**References:**

Eighteenth Meeting of Directors of Civil Aviation Training Centres of the South American Region (CIAC/18)

**ICAO strategic objectives:**

- A – Safety*
- B – Air navigation capacity and efficiency*

**1. Introduction**

1.1. The following are some implementation priorities in the AGA/AOP area in the SAM Region:

- Aerodrome certification (related to improving the level of effective implementation (EI) of ICAO SARPs in the AGA area),
- Airport collaborative decision-making (Airport-CDM),
- Airport planning, and
- Runway safety.

1.2. Of the priority areas identified in the previous paragraph, the SAM Office is in the process of developing implementation project proposals for the RASGPA in the area of runway safety (implementation of runway safety teams). The priorities related to airport certification, airport planning, and airport decision-making are being addressed in GREPECAS projects F1, F2 and F3.

1.3. It should be noted that all training activities of the AGA/AOP programme of the SAM Region are aligned with the projects described above, the regional air navigation plans, and the Regional Safety Plan (SAMSP). In addition, the Regional Office carries out activities consistent with the implementation of new SARPs (ICAO standards and recommended practices) and ICAO HQ provisions.

## 2. Discussion

2.1. As a result of various activities, including training events and panel meetings, teleconferences, consultations with the Regional Office, technical assistance activities, among others, it has been noted that training needs in the AGA/AOP area are many and with varying objectives.

2.2. One of the main needs identified is making sure that the aerodrome inspector **obtains and maintains** the competencies required for his/her certification and safety oversight role. Since the AGA area includes several disciplines, it is sometimes not an easy task to develop such competencies in a single inspector. It is therefore imperative that the State has an AGA inspector training programme that takes into account these needs.

2.3. The CAAs must have adequate AGA training programmes in accordance with international standards, including documents such as the PANS-Aerodromes (Doc 9981) and the Manual on Certification of Aerodromes (Doc 9774) and the guidelines on USOAP protocol questions in AGA.

2.2 It has been noted that, in several States, there is no clearly defined structure for training AGA personnel, in the form of an AGA Inspector training programme. Many States prepare ***Annual Training Plans*** that take into account what is “*available in the market*”, rather than establishing competency requirements and identifying the corresponding training needs to obtain and maintain such competencies. There are aspects such as recurrent training that are not clearly defined in said plans.

2.3 Sometimes training centres and other providers offer courses and other related activities (seminars, workshops, webinars, etc.) on various topics, some related to basic training needs, but these are supplementary and do not necessarily cover the subject matters that the inspector requires.

2.4 In order to mitigate this deficiency, the SRVSOP is in the process of preparing a Model AGA Inspector Training Programme, which would include the subject areas and the syllabus needed to develop and maintain the basic skills of an AGA inspector. This is especially necessary since the AGA area has different specialties and requirements that are not necessarily addressed by the courses currently being offered.

2.5 Another deficiency identified in several States is that with few inspectors, it becomes difficult for CATCs to develop and deliver all the necessary training to inspectors. Therefore, there is an opportunity for CATCs to identify the courses required by an AGA inspector, and to distribute the delivery of these courses, so that each neighbouring State can include in its AGA training plan those courses that the staff needs to acquire and maintain competencies. It also provides an opportunity for the SRVSOP and larger States to "export" or allow foreign students to participate in some specialised courses in the AGA area.

2.6 In the area of aerodromes, due to its multiple specialties, it has been noted that there is an opportunity to provide this training, particularly in specialised or advanced aspects. These specialised areas include:

- Initial training, which includes all the elements of aerodrome engineering;
- Aerodrome operations;

- Rescue and firefighting (RFF);
- Wildlife control;
- Aeronautical studies and risk assessment;
- Safety management system (SMS) and the State safety system (SSP);
- Standard enforcement monitoring; and
- Signals, signs, lighting, etc.

### **Other training activities**

2.7 In addition to the aforementioned basic requirements, other training needs have been identified in aspects more related to the capacity and efficiency of operations than to safety aspects alone. In this regard, opportunities have been identified for CATCs to provide training on the following aspects in the area of aerodromes:

- Airport collaborative decision-making
- Collaborative airport planning
- Obstacle assessment
- Aerodrome emergency plans, recovery and resilience
- e-TOD and GIS systems
- New global runway condition reporting formats
- Ground handling

### **RLA/06/901 activities**

2.8 With the support of regional project RLA/06/901, Assistance for the implementation of a regional ATM system taking into account the ATM operational concept and the corresponding communication, navigation and surveillance (CNS) technology support, and as part of the action plan for improving aerodrome design and management, various training activities were carried out on topics such as:

- A-CDM
- Ground handling
- SMGCS

2.9 Details of these activities are contained in Appendix A.

### **RLA/99/901 activities**

2.10 The Regional System (SRVSOP) carried out a number of training activities focusing on various topics such as training of inspectors and GRF implementation. Details of these activities are contained in Appendix A.

### **Other activities**

2.11 Under the ICAO regular programme and in support of other international organisations, various activities were carried out on issues such as:

- GRF implementation
- A-CDM (together with ACI LAC)
- Safety assessments for certification processes (with SRVSOP and FAA)

- Wildlife (in support of CARSAMPAF and ACI LAC)
- Pavement management and design (ALACPA)

## **2022 activities**

2.12 The following training activities are planned for 2022:

- Seminar/workshop on heliport design and operation
- Second seminar on airport planning in the SAM Region
- Seminar on obstacle limitation surfaces
- Seminar on aerodrome certification with focus on the acceptable level of safety (ALoS) and the equivalent level of safety (ELoS).

2.13 Details of these are given in Appendix B.

2.14 The dates of these events can be found at: <https://www.icao.int/SAM/Pages/Meetings-and-Events.aspx>

### **3. Suggested action**

The Meeting is invited to take note of AGA/AOP training activities conducted since the CIAC/18 meeting and those planned for the year 2022, as shown in Appendices A and B respectively, and the identified training needs in the Region, and to study the possibility for civil aviation training centres in the Region to consider such activities when planning courses in the AGA/AOP area.

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## APPENDIX A

## TRAINING ACTIVITIES CARRIED OUT SINCE CIAC/18

PROJECT / PROGRAMME	EVENT	STRATEGIC OBJECTIVE	PLACE	DATE	#DAYS	OBJECTIVE	NUMBER OF PARTICIPANTS
RLA06/901	4th ICAO SAM Regional Seminar on A-CDM	CAPACITY AND EFFICIENCY	LIMA	12-15 November 2019	4	The main objective of the regional seminar was to validate the needs and challenges of current implementations in order to address them through a regional implementation guide and/or other means to ensure a harmonised approach to the concept. <a href="https://www.icao.int/SAM/Pages/ES/MeetingsDocumentation_ES.aspx?m=2019-06901-ACDM4">https://www.icao.int/SAM/Pages/ES/MeetingsDocumentation_ES.aspx?m=2019-06901-ACDM4</a>	42
REGULAR PROGRAMME/ SRVSOP	ICAO-ACI LAC-SRVSOP CAR/SAM Webinar on GRF	SAFETY	Virtual	18 June 2020	1	The objective of the webinar was to introduce the new ICAO methodology for assessing and reporting runway surface conditions, which was scheduled to be implemented on 5 November 2020.	314
SRVSOP	ICAO-FAA-SRVSOP (virtual) Seminar/Workshop on aerodrome safety assessment	SAFETY	Virtual	18 August 2020	1	Train Colombian AGA experts in the analysis of deviations/exemptions from regulatory requirements and the impact on safety.	140
SRVSOP	EULAC/ICAO/SRVSOP SAM virtual workshop on aerodrome certification with an SMS approach, for States	SAFETY	Virtual	14-25 September 2020	10	Train AGA experts in the process of aerodrome certification with an SMS approach.	30
RLA06/901	Virtual seminar on ground handling for the SAM Region	SAFETY CAPACITY AND EFFICIENCY	Virtual	21 April 2021	1	The objective was to inform participants about regional challenges and opportunities regarding ground handling management processes, their incorporation into airport processes and their impact on safety. This event was coordinated with the support of ICAO Headquarters and	120

PROJECT / PROGRAMME	EVENT	STRATEGIC OBJECTIVE	PLACE	DATE	#DAYS	OBJECTIVE	NUMBER OF PARTICIPANTS
						international organisations involved in the drafting of the new ICAO Ground Handling Manual: IATA, ACI LAC and the Airports Services Association (ASA).	
SRVSOP	Workshop on SMS maturity assessment	SAFETY	Virtual	09-13 August 2021	5	Train AGA experts in the use of the tool to assess an aerodrome operator's SMS.	50
RLA06/901	Virtual seminar on surface movement guidance and control systems (SMGCS)	SAFETY CAPACITY AND EFFICIENCY	Virtual	15 September 2021	1	The objective of this event was to strengthen States and other operational partners with basic information on the SMGCS concept, providing States with mechanisms to clearly identify the scope of SMGCS, its difference with A-SMGCS and to properly document such systems at international aerodromes, taking into account the changing traffic density and visibility conditions under which such operations are planned.	120
REGULAR PROGRAMME	ICAO-CANSO CAR/SAM webinar on GRF aimed at air navigation service providers	SAFETY	Virtual	28 September 2021	1	The objective of the webinar was to present and address different issues related to the new ICAO methodology for assessing and reporting runway surface conditions, but with a focus on the challenges identified for air navigation service providers, whose implementation date is scheduled for 4 November 2021.	532
SRVSOP	Basic course - GRF	SAFETY	Virtual	Asynchronous editions from May to October 2021	N/A	Train AGA, OPS and ANS experts from CAAs and industry on the new GRF methodology to support implementation in States.	240

## APPENDIX B

## EVENTS PLANNED FOR 2022

PROJECT / PROGRAMME	EVENT	STRATEGIC OBJECTIVE	PLACE	DATE	#DAYS	OBJECTIVE	NUMBER OF PARTICIPANTS
RLA06/901	Seminar/workshop on heliport design and operation	CAPACITY AND EFFICIENCY SAFETY	Virtual	14-16 June	3	Provide States with updated tools based on the new amendments to Annex 14 Vol. II and updated ICAO guidance documents. Awareness-raising on new measures	20
RLA06/901	2nd seminar on airport planning in the SAM Region	CAPACITY AND EFFICIENCY	Virtual	21-22 September	2	Support to the implementation of GREPECAS Project F2 Review of updated guides States committed to updating national plans taking into account requirements to keep local plans up to date	Up to 500 (virtual)
RLA06/901	Seminar on obstacle limitation surfaces	CAPACITY AND EFFICIENCY SAFETY	Virtual	26 October	1	Present the new OLS methodology and give affected stakeholders the opportunity to discuss and provide feedback on the change	Up to 500 (virtual)
SRVSOP	Workshop on safety assessment applied to deviations from LAR 154	SAFETY	Lima	23-25 May 2022	3	Train AGA experts in the analysis of proposed deviations/exemptions from the physical characteristic requirements of LAR 154.	30
SRVSOP	Seminar on certification with focus on AloS/ELoS	SAFETY	Lima	8-12 August 2022	5	Train AGA experts in the resolution of cases of non-compliance during the certification process based on an ALoS/ELoS approach.	20

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