



CIAC/19

INTERNATIONAL CIVIL AVIATION ORGANIZATION

SOUTH AMERICAN REGIONAL OFFICE

**NINETEENTH MEETING OF DIRECTORS OF THE CIVIL
AVIATION TRAINING CENTERS OF THE SOUTH
AMERICAN REGION (CIAC/19)**

FINAL REPORT

(Virtual , 8 to 12 November 2021)

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HISTORY OF THE MEETING

ii-1 PLACE AND DURATION

The Nineteenth Meeting of Directors of the Civil Aviation Training Centres (CIAC/19) was held in a virtual format, on 8-12 November 2021.

ii-2 OPENING CEREMONY AND OTHER MATTERS

Mr. Fabio Rabbani, Regional Director of the ICAO South American (SAM) Regional Office, welcomed the participants, highlighting the importance of the topics to be discussed and their implementation in the Region to address air navigation and safety needs in the short and medium term, thus opening the Meeting. Likewise, he noted that the CATCs constituted a very important pillar to achieve the vision of the ICAO Global Plans and Initiatives, through continuous and quality training.

ii-3 SCHEDULE, ORGANISATION, WORKING METHODS, OFFICERS AND SECRETARIAT

Ms. Doris Suárez, Director of the *Instituto Universitario de Aeronáutica Civil-IUAC*, was elected as Chairperson of the Meeting and Mr. Armoa acted as Secretary.

The Meeting agreed to hold its sessions from 08:30 to 15:00 hours.

ii-4 WORKING LANGUAGES

The working languages were Spanish and English.

ii-5 AGENDA

The following Agenda was adopted:

- Agenda Item 1: Seminar on the requirement of instruction and training of aeronautical staff within the context of the ICAO Global Plans (GANP, GASP and GAsEP)
- Agenda Item 2: Analysis of the valid conclusions formulated at the Eighteenth Meeting of Directors of the Civil Aviation Training Centres of the South American Region (CIAC/18) and previous meetings
- Agenda Item 3: Analysis of the challenges of CATC's continuity of activities in the context of the COVID-19 pandemic
- Agenda Item 4: Activities carried out by the civil aviation training centres of the Region
- Agenda Item 5: Follow-up of the implementation of training activities in air navigation, safety and other aviation areas in the Region

- Agenda Item 6: Challenges and opportunities for continuity of training activities in aviation focused by the GAT, and follow-up of the TRAINAIR PLUS Programme activities
- Agenda Item 7: Review of the terms of reference and work programme of the CIAC group
- Agenda Item 8: Other business

ii-6 ATTENDANCE

The Meeting was attended by 12 States from the SAM Region (Argentina, Bolivia, Brazil, Chile, Colombia, Guyana, Panama, Paraguay, Peru, Suriname, Uruguay and Venezuela) with a total of 54 participants, 4 officials from ICAO Headquarters and 6 from the SAM Office. The list of participants appears on page iii-1.

ii-7 LIST OF CONCLUSIONS

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LISTA DE PARTICIPANTES / LIST OF PARTICIPANTS**ARGENTINA**

1. Adriana Douthat
2. Carla Borlandelli
3. Mario Filosofía

BOLIVIA

4. Darlin Cossio Villarroel

BRASIL/BRAZIL

5. Almir Gomes da Silva
6. André Faleiros
7. Vitor Silva
8. André Fernandes

CHILE

9. Miguel Muñoz
10. Pilar Caviedes

COLOMBIA

11. Ana Maria Pineda Garcia
12. Joselyn Zarate
13. Adriana Ramírez Suárez
14. William Aranda

GUYANA

15. Clifford Van Doimen

PANAMÁ/PANAMA

16. Gilda Espinosa

PARAGUAY

17. Zulma Roman Medina
18. Rodolfo Zotti Siculi
19. Adriana Vieira
20. Ximena Fornells

PERÚ/PERU

21. Fabiola Chávarry García
22. Alexander Lopez
23. Joanna Franco
24. Victor Hugo Galván
25. Uber Saldana
26. Mirtha Sánchez
27. Liliana Correa
28. Alexandre Cotera
29. Wladimir Abad
30. Jorge Villanueva
31. Félix Pérez
32. Carlos Andrade Rivera Santander

33. José Víctor Mendoza Jiménez

34. José Domínguez
35. Mirko Skrinjaric
36. Alex Gibson
37. Mario Gutiérrez
38. Jesús Ponce de León Báez
39. Karen Espinoza
40. Jorge López Vásquez
41. Alex Gibson
42. Alejandro Galván
43. Carlos Abad

SURINAM/SURINAME

44. Radjan Phalai
45. Cindy Toemin
46. Sharita Radjie

URUGUAY

47. Marine Falero
48. Sarina Franzini
49. Fernando Rodríguez
50. Juan Daniel Chalkling
51. Maria Victoria Blanc Chalkling
52. María Llambias

VENEZUELA

53. Doris Suárez
54. Fernando Artuza

OACI / ICAO

55. Oscar Quesada-Carboni
56. Pablo Lampariello
57. Jorge Armoa Canete
58. Fabio Salvatierra
59. Fernando Hermoza
60. Ana María Díaz Trenneman
61. Mekki Lahlou
62. Rolando Tamayo
63. José Riveros
64. Pedro Avella

Agenda Item 1: Seminar on the requirement of instruction and training of aeronautical staff within the context of the ICAO Global Plans (GANP, GASP and GAsEP)

1.1 The Meeting, as agreed at the CIAC/18 meeting, conducted the Seminar on aeronautical personnel training requirements within the context of the ICAO Global Plans (GANP, GASP and GAsEP). The Meeting also deemed it important to include the ICAO environmental protection initiatives, in order to build an umbrella for four of the five ICAO strategic objectives.

1.2 The Seminar was conducted on the basis of presentations and a period for comments, questions and answers.

1.3 The presentations were made by:

- GASP: *Escuela Técnica Aeronáutica de Chile*
- GAsEP: *Corporación Educativa Indoamericana*, Colombia
- GANP: *Instituto Nacional de Aeronáutica Civil (INAC – Paraguay)* (presented by the Secretariat)
- SAP and CORSIA: Secretariat

1.4 The first presentation was on the ICAO Global Aviation Safety Plan (GASP). The main points of the presentation were:

- Background
- What is the GASP?
- Evolution of safety
- Evolution of the GASP
- Purpose of the GASP
- GASP principles
- GASP objectives
- Scope of the GASP
- Relationship with the GANP
- Challenges of the GASP
- Safety risk
- Safety risk categories
- Safety enhancement initiatives
- Training requirements

1.5 The presentation can be found in Appendix A to this part of the report.

1.6 The second presentation was on the Global Aviation Security Plan (GAsEP). The content of the presentation was as follows:

- Introduction
- Purpose of the GAsEP
- Aviation risk context
- Benefits of the GAsEP
- Key results
- Global goals of the GAsEP
- Roadmap for the implementation of the global goals
- Roadmap – Training
- Conclusions
- Future activities

1.7 The presentation can be found in Appendix B to this part of the report.

1.8 The third presentation outlined the vision of the ICAO Global Air Navigation Plan (GANP). The content of the presentation was as follows:

- Vision
- Background of the GANP
- Scenario-based planning mechanism
- GANP – Sixth edition
- Improvement Plan
- Regional Air Navigation Plan
- Training challenges

1.9 The presentation can be found in Appendix C to this part of the report.

1.10 The fourth presentation outlined the ICAO environmental protection initiatives. The presentation contained issues related to the State Action Plan (SAP) on CO₂ Emissions Reduction and the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA). The presentation is attached as Appendix D to this part of the report.

1.11 The Meeting noted that the information contained in these four presentations would serve as the basis for training planning, and for the CATC work plans.

Agenda Item 2: Analysis of the valid conclusions formulated at the Eighteenth Meeting of Directors of the Civil aviation Training Centers of the South American Region (CIAC/18) and previous meetings

2.1 Under this agenda item, the Meeting reviewed the following working paper:

- *WP/02 (Presented by the Secretariat)*

2.2 The Meeting reviewed the status of conclusions formulated at CIAC meetings, which were presented in a table that identified, for each conclusion, the task to be completed, the deliverable of the task, the date of completion, the party responsible for the task and the member supporting its completion.

2.3 The Meeting noted that only Conclusions CIAC/16-2, CIAC/18-1, CIAC/18-1 (bis) (renamed CIAC/18-4) and CIAC/18-3 remained valid.

2.4 With regard to Conclusion CIAC/16-2, the Meeting requested the Secretariat to ask the CATCs, via State Letter, to send information on the courses they offered, in order to prepare the catalogue of courses offered in the SAM Region and post them on a website and in a course library, currently available on the website of the *Instituto Universitario de Aviación Civil (IUAC)* of Venezuela. Likewise, information was requested on courses planned to be offered in the triennium 2021-2023.

2.5 Regarding Conclusion CIAC/14-2, Implementation of e-Learning, the Meeting noted that the COVID-19 pandemic had given a strong impetus to this training methodology. Accordingly, the conclusion could be considered as finalised.

2.6 Due to an unintentional error, the CIAC/18 meeting issued two conclusions with the same number. To avoid confusion, it was decided to renumber the second Conclusion CIAC/18-1 as Conclusion CIAC/18-1.4.

2.7 As a follow-up, Conclusion CIAC/18-1 and the renumbered Conclusion CIAC/18-4 involve activities that would be important to maintain for some time and review at the next two meetings, although the requested activities have been implemented by the CATCs.

2.8 Regarding Conclusion CIAC/18-2, the pandemic and the resulting limitation of resources would not allow Chile to host this technical meeting, at least for now, so it was suggested to cancel this conclusion.

2.9 Regarding Conclusion CIAC/18-3, the Secretariat reported that a working paper had been prepared for presentation at the SRVSOP General Board meeting in December of this year.

2.10 The status of valid CIAC conclusions is shown in **Appendix A** to this part of the report.

STATUS OF IMPLEMENTATION OF CONCLUSIONS FORMULATED BY THE CIAC/18 MEETING AND OF OUTSTANDING CONCLUSIONS FORMULATED BY PREVIOUS CIAC MEETINGS

Conclusions	Specific tasks	Deliverables	Date of completion	Responsible party	Supporting members	Status of implementation
<p>CIAC/16-2 Implementation on a website of a SAM CATC course catalogue That the Directors of the CATCs of the SAM Region, in order to develop a catalogue of courses available and required abroad for each CATC of the SAM Region:</p> <p>a) prepare a list of available courses, the 2017 course schedule, and overseas course requirements for the period 2017-2019, using the Excel format shown in Appendix A to this agenda item by the end of January 2017;</p> <p>b) send the information collected to the director of the Venezuelan training centre with a copy to the ICAO Secretariat by the end of the first week of February 2017; and</p> <p>c) that the Venezuelan training centre (IUAC) consolidate the information prepared by the CATCs, posting it on the website created for the</p>	<p>Prepare a list of available courses, the 2019 course schedule, and overseas course requirements for the period 2019-2021</p> <p>Publication of available courses, 2019 courses, and overseas course requirements for the period 2019-2021 in the CATC website</p>	<p>List of courses offered in 2019 by the State. Overseas course requirements 2019-2021</p>	<p>End of January 2018</p>	<p>CATCs</p>	<p>ICAO</p>	<p>Valid The meeting considered extending until the end of January 2019 the requirement for the programming of courses to be held in 2019 and overseas programming for the period 2019-2021 and subsequent delivery to the IUAC centre of Venezuela with copy to the SAM Office so that it can be posted on the SAM CATC portal on the website of IUAC of Venezuela. No information was provided by CATCs. A State Letter will be sent requesting the information.</p>

Conclusions	Specific tasks	Deliverables	Date of completion	Responsible party	Supporting members	Status of implementation
CATCs of the Region by mid-March 2017 at the latest.						
<p>Conclusion CIAC/14-2 Implementation of virtual training</p> <p>That the CATCs of the Region:</p> <p>a) that have not yet conducted any virtual training carry out a study for the implementation of some form of virtual training (e-learning, b-learning or face-to-face with virtual support);</p> <p>b) that have only implemented face-to-face training with virtual support carry out a study for the implementation of virtual b-learning or e-learning courses according to the identified needs;</p> <p>c) that have started virtual b-learning or e-learning, conduct studies to increase the number of b-learning or e-learning courses according to identified needs; and</p> <p>d) submit the studies mentioned in a, b and c to the CIAC/15 meeting.</p>	<p>Implementation of some form of virtual training:</p> <ul style="list-style-type: none"> ✓ e-learning ✓ b-learning ✓ face-to-face with virtual support 	Virtual training implemented	Ongoing	CATCs	ICAO	<p>Valid</p> <p>During CIAC/17, it was reported that extended use of virtual training continued in the training centres of Argentina, Brazil, Chile and Venezuela, with some progress in Colombia and not yet started in Bolivia, Paraguay, Peru, and Uruguay.</p> <p>Completed. Verified by State presentations during the CIAC/19 meeting</p>
<p>Conclusion CIAC/18-1 Dissemination of the NGAP programme</p>	- Distribution of the NGAP programme by civil aviation authorities to	- Distribution letters - Advocacy sessions	2021- 2023	CAA CATCs States		<p>Valid</p> <p>The activities called for by the conclusion have been</p>

Conclusions	Specific tasks	Deliverables	Date of completion	Responsible party	Supporting members	Status of implementation
<p>Considering that the NGAP TF has on its agenda the development of regional and national strategies for the implementation of the NGAP programme, the meeting of CATC directors urges the civil aviation authorities of the SAM Region to:</p> <p>a) contact universities and tertiary training institutions offering aviation-related professional careers to promote the NGAP programme;</p> <p>b) conduct aviation advocacy sessions in partnership with stakeholders and secondary education institutions; and</p> <p>c) outline a national plan for the implementation of the NGAP programme.</p>	<p>universities and higher education schools in SAM States</p> <p>- Sessions at the CATCs to promote the NGAP programme</p>					<p>implemented by the States. However, it needs to be kept valid and reviewed at the next two CIAC meetings to complete some tasks.</p>
<p>Conclusion CIAC/18-1 Dissemination and integration of the TRAINAIR PLUS programme</p> <p>The GAT Office remains committed to improving its training products and services for States, TPP members and industry, while operating in a cost-based mechanism.</p> <p>The Meeting of CIAC Directors urges SAM States to:</p> <p>a) take note of the various training programmes, activities, methods and tools made available by the ICAO GAT Office;</p>	<p>Dissemination of the TRAINAIR PLUS Programme and translation of available courses into Spanish</p>	<p>Courses in Spanish</p>	<p>2022</p>	<p>GAT- ICAO States</p>	<p>ICAO</p>	<p>Various</p> <p>The activities called for by the conclusion have been implemented by ICAO (GAT) and the States. However, it needs to be kept valid and reviewed at the next two ICAO meetings to complete some tasks.</p>

Conclusions	Specific tasks	Deliverables	Date of completion	Responsible party	Supporting members	Status of implementation
<p>b) encourage other training organisations in the SAM Region to join the TPP to benefit from the numerous training solutions and competency development activities of the Programme;</p> <p>c) encourage SAM States to learn in detail about the courses available in the ICAO catalogue, assess which of them are relevant to their State and institutions and with the support of the GAT Office work on their delivery; and</p> <p>d) in order to increase the supply of ICAO training packages available in Spanish that meet the training needs of the Region, assess and communicate to GAT which courses from the ICAO catalogue that are in other languages would be important to translate into Spanish.</p>						
<p>Conclusion CIAC/18-2: Creation of a technical committee for the standardisation of courses delivered by CATCs in the SAM Region</p> <p>That, taking into account the approach taken by the various CATCs to the professional training of technicians in the different areas of aviation, which is broadly analogous but different in duration, the Meeting urges States to:</p>	<p>Organisation of the Technical Committee</p>	<p>Technical courses applicable to aviation, with standard duration and content</p>	<p>2019-2021</p>	<p>States CATCs</p>		<p>Valid The installation of the technical committee could not take place due to an error when coordinating the convening of the technical committee and was subsequently postponed due to the pandemic</p> <p>Cancelled</p>

Conclusions	Specific tasks	Deliverables	Date of completion	Responsible party	Supporting members	Status of implementation
<p>a) set up a technical committee charged with standardising the courses delivered by the CATCs of the SAM Region in terms of approach, duration and content;</p> <p>b) request Chile to consider hosting the first session of this meeting on the last week of October of this year and to respond on the same by the first week of July at the latest; and</p> <p>c) report on the results and recommendations of the first session of the technical committee to CIAC/19.</p>						
<p>Conclusion CIAC/18-3: Coordination with CATCs in relation to SRVSOP and AVSEC courses delivered in the States</p> <p>That, considering that the courses delivered by the SRVSOP and by the AVSEC area in the States meet the objectives of the CATCs, and for better coordination for resource optimisation and dissemination, the Meeting requests the Secretariat to include CATC directors in the email list of State Letters sent to call for these courses</p>	<p>Coordinate with the regional technical cooperation programmes the call for courses and training activities</p>	<p>Implementation of training activities, coordinated between regional technical cooperation projects and CATCs</p>	<p>2022</p>	<p>States Secretariat</p>	<p>SRVSOP</p>	<p>Valid A WP will be submitted to the SRVSOP GB for implementation of the conclusion</p>

Agenda Item 3: Analysis of the challenges of CIACs continuity of activities in the context of the COVID-19 Pandemic

Agenda Item 4: Activities carried out by the Civil Aviation Training Centers of the Region

3.1 Under this Agenda Items, the following paper was analyzed and the following presentations were given:

- WP/12 - *Activities of the Instituto Universitario de Aeronáutica Civil Mayor (Av.) Miguel Rodriguez (IUAC), in times of pandemic* (presented by Venezuela)
- Presentations:
 - a) Argentina, CIPE - Centro de Instrucción, Perfeccionamiento y Experimentación
CIPE Presentation
 - b) Bolivia, INAC – Instituto Nacional de Aviación Civil
Birth of Instituto Nacional de Aviación Civil
 - c) Brazil, ANAC
Training and solutions during the pandemic in Brazil
 - d) Brazil – DECEA
 - e) Chile, ETA - Escuela Técnica Aeronáutica
ETA Presentation
 - f) Colombia, CEA – Centro de Estudios Aeronáuticos
Analysis of the challenges of continuity of activities of the CATCs in the context of the COVID-19 pandemic / Activities carried out by the Civil Aviation Training Centers of the Region
 - g) Colombia, CEI - Corporación Educativa Indoamericana
CEI Presentation
 - h) Panama, ISFPA - Instituto Superior de Formación Profesional Aeronáutica
2021 New Era
 - i) Paraguay, Instituto Nacional de Aeronáutica Civil, Paraguay
Training Activities 2020-2021, Projections for 2022 and Current Infrastructure
 - j) Peru, CORPAC – Centro de Instrucción de Aviación Civil
CIAC Presentation
 - k) Uruguay
 - l) Venezuela, IUAC

*IUAC Presentation*m) Venezuela, IUAC*Training and Instruction Planning*

3.2 The Meeting took note of the activities carried out since the Eighteenth Meeting of Directors of the Civil Aviation Training Centers of the South American Region (CIAC/18) by each of the participating civil aviation training centers. For better reference, the presentations made are found as **Appendices A to M** to this agenda item.

3.3 The CIACs reported on the reconversion of the delivery of Training and Instruction in the context of the COVID-19 Pandemic. They indicated that some Centers were already prepared because they had begun delivering courses through e-learning but that they had to adapt to prepare new courses in virtual or online form. The processes implemented were:

- a) Hiring a platform for the delivery of courses in virtual format;
- b) Training of instructors;
- c) Contracting, in some cases, of bandwidths to support the delivery of courses in a virtual environment
- d) Adaptation of the Regulations of the Civil Aviation Authority for the recognition of courses delivered in virtual or online format.

3.4 After the flexibility of the sanitary measures, the CATCs began to dictate -some centers- courses in semi-face-to-face format. In order to deliver the courses and training, the CIACs implemented bio-security protocols, approved by the health authorities of their States, in addition to those established by the Civil Aviation Authorities.

3.5 Regarding the activities reported, the Meeting noted that, despite the Pandemic, the Civil Aviation Training Centers continued to work and deliver a large number of distance and semi-face-to-face courses.

3.6 Within the certification process, Argentina reported on the Certification tasks of the CATCs and CEACs.

3.7 Likewise, the Meeting observed that the CIACs have been projected beyond the recognition of the Civil Aviation Authority, managing to elevate the institution in University Centers of Professional Training, with recognition of the National Education Authorities. In addition, some Centers have implemented the ISO 9001:2015 Standard in their teaching processes, achieving the Certification of the Quality Management System implemented.

3.8 From the presentations made, the Meeting was informed of the courses carried out and the number of students by the CIACs of the Region. In this regard, it was noted that most of the training centers had a heavy load of courses with a considerable number of students to cope with the increase in training, due to the entry of new professionals in the different areas of aviation, as well as in the implementation of new systems.

3.9 The Meeting took note of the presentation of the building infrastructure, equipment, furniture and application of bio-security protocols of the CATCs. Likewise, highlighted the reconversion processes of some Training Centers in order to give greater impetus to the work of creating capacities to

promote the development of aviation, in their States, delivering trained and instructed personnel in the different areas of the aviation.

3.10 Additionally, the Meeting took note of the application of the NGAP program and the support that the CATCs provide to cooperate with the achievement of the Aviation Vision in their States. Likewise, congratulated some CATCs that have generated recreational space and made recreation materials available on their websites, in order to take care of the mental health of students and instructors, very important in the time of total confinement.

3.11 The Meeting recognized the effort made by the CATCs of the States that have achieved the status of Full Member of the ICAO Trainair Plus Program.

3.12 The Meeting appreciated the effort of all CATCs to maintain the training and instruction plans, and to collaborate with their States by training highly competent professionals for all areas of aviation.

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

5.1 Under this agenda item, the following working papers were presented:

- WP/03 - *Follow-up of the implementation of training activities in the AGA/AOP area* (presented by the Secretariat)
- WP/04 - *Follow-up of the implementation of training activities in the ATM area* (presented by the Secretariat)
- WP/05 - *Follow-up of the implementation of training activities in the aeronautical information service (AIS/AIM) area* (presented by the Secretariat)
- WP/06 - *Follow-up of the implementation of training activities in the area of meteorology (MET)* (presented by the Secretariat)
- WP/07 - *Training activities in the context of the Global Air Navigation Plan - Training for the development of Vol. III of the CAR/SAM e-ANP* (presented by the Secretariat)
- WP/08 - *Monitoring the implementation of training activities in the safety area* (presented by the Secretariat)
- WP/13 - *Achievements of the Instituto Universitario de Aeronáutica Civil Mayor (Av.) Miguel Rodríguez (IUAC)* (presented by Venezuela)

5.2 The Meeting took note of the implementation of air navigation, safety and other aviation training activities in the Region.

Follow-up of the implementation of training activities in the AGA/AOP area

5.3 Under agenda item 5, the Secretariat presented WP/03, which provided a summary of the follow-up to the implementation of training activities in the AGA/AOP area. In addition to presenting a summary of activities conducted by the Secretariat and the SRVSOP since the CIAC/18 meeting and the planning for 2022, the paper also highlighted the importance for both States and training centres to prepare training activities in the AGA area according to plans that take into account competency requirements of AGA inspectors, given that annual training plans for inspectors are usually determined based on what is available on the market, instead of “the market”--in this case, the CATCs--adjusting to the needs of the States.

Follow-up of the implementation of training activities in the ATM area

5.4 The Meeting discussed regional ATM-related training activities, essentially in the area of performance-based navigation (PBN) and ATFM implementation, in response to the requirements of global and regional air navigation planning.

5.5 The activities carried out with the support of project RLA/06/901 and the SAM/IG, supported by experts from the GESEA, were outlined. The links showing the progress made in the aforementioned implementations in years 2020-2021 were presented, as follows:

https://www.icao.int/SAM/Pages/ES/MeetingsDocumentation_ES.aspx?m=2020-RLA06901-SAMIG25

https://www.icao.int/SAM/Pages/ES/MeetingsDocumentation_ES.aspx?m=2021-RLA06901-SAMIG26

5.6 Training activities planned for the year 2022 under the auspices of Project RLA 06/901 include the following:

- a) Workshop/meeting on ATFM management of regional data and indicators, scheduled for June 2022, will address ATFM data standardisation and analysis of demand forecasts and indicators. Use will be made of the Power BI application.
- b) Workshop/meeting on capacity calculation methodology for ATFM, scheduled for August 2022, aims at the implementation of the updated Calculation Manual. It will address the planning of capacity measurement (or update) activities in the Region.
- c) Workshop for airspace planners, which will provide training in airspace implementation/optimisation project formulation. Scheduled for September 2022.
- d) Workshop/meeting on flexible use of airspace (FUA) and civil-military cooperation in ATM. Aimed at the study for the implementation of the FRTO-B0/2 operational element, as well as the dissemination and analysis of the new ICAO Doc 10088. The course is scheduled for November 2022.

5.7 Regarding the specific training activities in the area of ATM and PBN that it is imperative for States to conduct in their training centres in order to provide their experts with the minimum knowledge required for the planned implementations, the following is recommended:

- Basic and advanced courses on methods and procedures of Doc 9971, CDM - ATFM Manual
- Global Air Navigation Plan – GANP, 6th edition
- PBN operational concept and national air navigation plans
- Basic PANS-OPS design course
- PANS-OPS RNP design course

Follow-up of the implementation of training activities in the area of meteorology (MET)

5.8 The Meeting was informed of the training activities carried out by the Secretariat in the MET area through WP/06. The Secretariat welcomed the delivery of meteorology courses by the CATCs.

Follow-up of the implementation of training activities in the aeronautical information area (AIS/AIM)

5.9 In WP/05, the Meeting took note of the training activities carried out by the Secretariat in the AIS/AIM area. In this regard, information was provided on AIXM courses, as well as on the conduction of workshops on the formulation of indicators.

5.10 The Meeting took note of the Secretariat's recommendation to include in its training plans the conduction of workshops on NOTAMs, for information originators, as well as a workshop on the AIS Manual (ICAO Doc 8126).

5.11 The Secretariat urged the Meeting to include, in its training plans, training activities to support aeronautical information management in the electronic environment.

Follow-up of the implementation of training activities in the area of aviation security (AVSEC) and facilitation (FAL)

5.12 The ICAO Secretariat presented WP/15 on the "Results of the AVSEC and FAL training programme". The working paper explained the background of the work being done by ICAO on this issue, AVSEC/FAL training, summarising the different activities carried out in the SAM Region during the pandemic. Based on the information contained in WP/15, the Meeting issued the following conclusion:

CONCLUSION:	
CIAC 19-01: Results of the AVSEC/FAL training programme	
What: That The Secretariat urges SAM States to participate in ICAO-sponsored AVSEC training, both virtual and face-to-face, and also to take note of the new ICAO-certified ASTC, the CEA of Bogota, and to include it in their annual training plans for their personnel.	Expected result: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: Due to the pandemic and in order to resume air transport activities in the SAM Region, member States must train and/or conduct recurrent training activities to enhance the capacity of their personnel on AVSEC/FAL issues.	
When: In 2021/2022	Status: <input checked="" type="checkbox"/> Valid / <input type="checkbox"/> Superseded / <input type="checkbox"/> Finalised
Who: <input type="checkbox"/> States <input checked="" type="checkbox"/> ICAO <input type="checkbox"/> Other:	

Follow-up of the implementation of training activities delivered by the SRVSOP

5.13 Still under agenda item 5, WP/08 was presented on training activities carried out on safety through the Regional Safety Oversight Cooperation System (SRVSOP), comprising 12 States of the Region, based in the ICAO South American Regional Office.

5.14 In this regard, it was noted that training was one of the five main activities conducted by the SRVSOP in its annual work programme, with a total of 34 courses available to States, for which they had 36 regional instructors and had trained a total of 6,325 participants in courses, workshops and seminars in the areas of personnel licensing, aircraft operations, airworthiness, air navigation and aerodromes, based on the Latin American Aeronautical Regulations (LAR) and associated manuals aimed at inspectors and technical personnel of the CAAs, as well as industry personnel (AMOs, training centres and aerodromes).

5.15 Likewise, details were provided of the courses that had been delivered during the period 2020-2021, amounting to 46 courses with a total of 1,938 participants trained in the various aeronautical specialties. Most of the courses had been delivered remotely due to COVID-19 restrictions, requiring a change in the training modality, using Zoom tools, Teams and the Moodle platform.

5.16 Likewise, it was noted that the Sixteenth meeting of the Panel on Licensing and Aeronautical Medicine (RPEL/16), held on 18-22 October 2021, by means of working papers, had incorporated Amendment 176 to Annex 1 into the PEL LARs, concerning competency-based training and assessment requirements for remote pilots, air traffic controllers, aircraft maintenance mechanics, and flight dispatchers for the granting of licences and ratings. To this end, a multinational and multidisciplinary team would be created to define the timetable of activities for the implementation of this amendment, and to develop guidance material for CAA inspectors (procedures) and training centres (advisory circulars) on this methodology.

5.17 In this regard, the representatives of the participating training centres were requested to support the SRVSOP in this task. The Meeting accepted the proposal and formulated the following conclusion:

5.18

CONCLUSION CIAC/19-02 Joint work between the SRVSOP and the CATCs of the Region for the implementation of Amendment 176 to Annex 1	
What: That the CATCs of the States cooperate with the SRVSOP Technical Committee	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To be part of the work team charged with the development of guidance material for the implementation of competency-based training and assessment of aeronautical personnel applying for licences and ratings, in accordance with Amendment 176 to Annex 1.	
When: Once the work team is established in 2022.	Status:
Who: <input type="checkbox"/> Coordinators <input type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: SRVSOP / CATCs	

Training provided by the Instituto Universitario de Aeronáutica Civil Mayor (Av.) Miguel Rodríguez (IUAC)

5.19 In WP/13, Venezuela reported on the achievements of the *Instituto Universitario Civil Mayor (Av.) Miguel Rodríguez (IUAC)*.

5.20 Venezuela reported on the courses delivered by the IUAC, despite the pandemic, in the specialties of air navigation, pilots, and other areas related to aviation mechanics, avionics, airport operations, and aeronautical maintenance.

5.21 In addition, the IUAC had conducted "diploma courses" in the areas of aeronautical medicine, aeronautical law and aeronautical psychology.

5.22 The IUAC had also promoted research in the area of aviation, open competition on scientific and informative articles for the aeronautical sector.

Agenda Item 6: Challenges and opportunities for continuity of training activities in aviation focused by the GAT, and follow-up of the TRAINAIR PLUS Programme activities

6.1 Under this agenda item, the Meeting reviewed the following working papers:

- WP/09 - *Report on the implementation of the ICAO Civil Aviation Training Policy and global aviation training activities during 2020 and 2021 - GAT achievements* (presented by the Secretariat)
- WP/10 - *Informe sobre la Aplicación de la Política de Instrucción en Aviación Civil de la OACI y Actividades de Instrucción en Aviación Civil a nivel Mundial durante 2020 y 2021 - Política de Formación en Aviación y Desarrollo Comercial* (presented by the Secretariat)
- WP/11 - *Report on the implementation of the ICAO Civil Aviation Training Policy and global aviation training activities during 2020 and 2021 - Aviation Training Policy and Trainair Plus activities* (presented by the Secretariat)
- WP/14 - *Trainair Plus activities in 2020-2021*(presented by Venezuela)

6.2 The Meeting was briefed on the achievements of the ICAO Global Aviation Training Section. The GAT reminded the Meeting that, in 2019, the 40th ICAO Assembly adopted Resolution A40-25 to guide and expand the scope of ICAO training activities. The resolution contemplated seven principles that should guide ICAO training activities.

6.3 The GAT also informed the Meeting that, following Staff Notice No. 5783 of 26 November 2019, the Secretary General approved the integration of GAT as a Section, under the Technical Cooperation Bureau (TCB).

6.4 The Meeting took note of the functions of GAT and of ICAO documentation used as a basis for the development of training activities.

6.5 In relation to the impact of the COVID pandemic, GAT informed the Meeting that COVID-19 had affected the three fields of competence of the GAT.

6.6 GAT further reported on innovations introduced in 2021. In line with the strategy set forth in its 2021-2023 business plan, GAT had implemented a new loyalty framework for managing the TRAINAIR PLUS Programme, in order to make it more attractive to States and TPP members.

6.7 The Meeting noted that the GAT has drawn a Strategic Plan, based on five strategic objectives, described in WP/09.

6.8 Likewise, GAT described the scholarship award mechanism, the new framework of the Trainair Plus programme, resource mobilisation, and the roadmap for human resources development.

6.9 The Meeting took note that the GAT Office remained committed to support through its training products and services for member States, TPP members and industry, operating through a cost-based mechanism.

6.10 In WP/10, the GAT informed the Meeting about activities to promote the courses offered by the GAT, as well as on trade policies.

6.11 The Meeting received information on ATED, which is a user-friendly and effective web-based search mechanism designed for aviation professionals wishing to explore ICAO training portfolio of competency-based courses and academic graduate programs, and also provides TRAINAIR PLUS members and partners with global visibility and marketing opportunities.

6.12 The GAT reported that one of the benefits of the TRAINAIR PLUS Programme was access to training packages. TRAINAIR PLUS Programme (TPP) members benefit continuously from developed training packages and have access to more than 350 courses from the ICAO catalog of courses and training programs.

6.13 The GAT also reported that it promoted training partnerships with tertiary education providers, such as universities, regional and international aviation-oriented centres, public institutions and aeronautical agencies, as well as industry companies, inasmuch as they contribute to the achievement of ICAO objectives.

6.14 Regarding events, GAT reported that, due to the pandemic, the events planned for 2020 had been replaced by webinars. In this regard, in 2021, GAT organised six virtual webinars in the first two weeks of June 2021, entitled "Adapting to a new normality in aviation training". Furthermore, seven ICAO virtual thematic training weeks had been conducted or were scheduled to be conducted in 2021.

6.15 The Meeting noted, in terms of pricing policy, and based on its non-profit principle and the pricing mechanism contained in the ICAO Civil Aviation Training Policy, prices for GAT training services and products were set with a view to recovering GAT operating costs. In this regard, and based on the concept of "No Country Left Behind", preferential prices had been set especially for the least developed countries.

6.16 Furthermore, the GAT reported on the "Increased Access to Training (IaT)" initiative whereby it sought to facilitate access to online education for States facing technological difficulties. It had also promoted the "Increased Gender Equality through ICAO Training" initiative in March 2021, offering a 50% discount for current and future female professionals enrolling in ICAO online courses. The objective of this initiative was to help women further develop their technical skills and contribute to their educational and professional career development in aviation.

6.17 GAT informed the Meeting that, during 2022 and 2023, will continuously strengthen its outreach activities, based on the guidance provided by the ICAO Regional Offices to better understand the market it served and raise awareness of the GAT offering.

6.18 Finally, the GAT reminded the Meeting of the training policy. On this point, it reported on the policy on training design and development, on the evaluation of training, and on the qualification of training professionals.

6.19 The GAT encouraged training organisations in the SAM Region that were not yet members of the Trainair Plus Programme to join the TPP in order to benefit from the Programme's numerous training solutions, training tools and competence development activities. Furthermore, it urged SAM States to deliver the courses listed in the ICAO global catalogue of aviation courses.

Agenda Item 7: Review of the terms of reference and work program of the CIAC group

7.1 The Meeting reviewed the work program of the CIAC Group for the next triennium, as well as the current Work Program

7.2 The Meeting, after analyzing the information presented, referring to:

- ICAO Global Plans;
- ICAO Environmental Protection Initiative;
- Activities and courses prepared by the GAT;
- TRAINAIR PLUS program;
- IPack;
- Master Planning on Civil Aviation (CAMP);
- SRVSOP activities;
- Amendments to the Annexes and ICAO PANS; and
- Evaluation by Competences

decided to review the Work Plan, in force until CIAC/18, in order to update it.

7.3 The Meeting formed a working group for this purpose. The Working Group, after analyzing all the information, presented an updated Table to the Meeting, as a proposal for the Work Plan. The Table is presented as **Appendix A** to this part of the report.

7.4 The Meeting, after analyzing the proposal, approved the Work Plan, as presented in the aforementioned Appendix.

CATC Work Programme

No.	Task	Deliverables	Start	End	Responsible party	Supporting members	Status
1	Strengthen training programmes for air navigation services personnel to introduce the ASBU methodology and the ATM operational concept in order to face new challenges, taking into consideration ICAO documentation	Training programmes available for air navigation service personnel to introduce the harmonised ASBU methodology and ATM operational concept	2012	2023	CATCs	ICAO	Valid
2	Follow up on the activities of the Next Generation of Aviation Professionals (NGAP) Task Force and implement the results	Updated information available for the implementation of the results obtained by the Next Generation of Aviation Professionals (NGAP) Task Force	2012	2023	CATCs	ICAO	Valid
3	Implement competency-based training for aviation personnel, applying the ICAO standard methodology (ISD).	Report on CATC activities resulting from competency-based training	Dec 2014	2023	CATCs	ICAO	Valid
4	Implementation of competency-based training for ATCOs and ATSEP	Competency-based training for ATCOs and ATSEP	Nov 2015	2018	CATCs	ICAO	Completed
5	Follow up on the TRAINAIR Plus programme and encourage SAM States to make use of the	Information available on the TRAINAR PLUS programme. Application of the	2012	2023	CATCs	ICAO	Valid

	methodologies and tools developed by the programme	TRAINAIR PLUS methodology in the development of ICAO Standard Training Packages (STPs). Use made of the tools developed by the TPP and described in Agenda Item 3 of this report.					
6	Include in the CATC work programme a new task on a study for the implementation of some form of virtual training (e-learning, b-learning or face-to-face with virtual support)	Study for the implementation of some form of virtual training (e-learning, b-learning or face-to-face with virtual support). Assessment and application of objectives, standards, requirements, examples and best practices listed in document "Guidelines for the development of online courses" produced by the ICAO GAT Office.	2014	2019	CATCs	ICAO	Completed
7	Develop a training programme for air navigation personnel for the implementation of ASBU Block 0 modules contemplated in the national plans of the States of the Region.	Training programme available for Instructors on ASBU and ATM operational concept training and planning	2013	2018	CATCs	ICAO	Completed

8	Prepare training guides on ASBU and ATM operational concept training and planning, involving all areas of air navigation.	Training guides on ASBU and ATM operational concept training and planning available	2013	2017	SAM States	ICAO	Completed
9	Strengthen collaboration among civil aviation training centres (CATCs) of the Region	Report on collaboration activities among the CATCs of the SAM Region (mobility of instructors, exchange of courses, etc.).	2011	2023	CATCs	ICAO	Valid
10	Provide introductory ASBU and ATM operational concept courses to all air navigation personnel, and detailed ASBU module courses to air navigation personnel involved in all air navigation areas	ASBU and ATM operational concept training and planning courses available	2014	2018	CATCs	ICAO	Completed
11	Implementation of the rules of ethics (Appendix A to Agenda Item 1 of CIAC/15)	Rules of ethics implemented	2015	2016	CATC Directors	ICAO	Completed
12	Implementation of professional ethics recommendations (Appendix B to Agenda Item 1 of CIAC/15)	Professional ethics recommendations implemented	2015	2017	CATCs	ICAO	Completed

13	Drafting of an online catalogue of SAM CATC courses available and required abroad	Online catalogue of SAM CATC courses available and required abroad	2016	2022	CATCs	ICAO	Valid
14	Monitoring of training and updating of air navigation personnel, based on previously established indicators	Timely adoption of appropriate actions related to training and updating of air navigation personnel	2012	2018	CATCs	ICAO	Completed
15	Monitor and strengthen virtual training programmes	Report on CATCs' evaluation of their virtual training programmes	2021	2023	CATCs	ICAO	Valid
16	Develop and implement training programmes in accordance with the Global Aviation Safety Plan (GASP).	Personnel training programmes, in accordance with the Global Aviation Safety Plan (GASP).	2021	2023	CATCs	ICAO	Valid
17	Develop and implement training programmes in accordance with the Global Aviation Security Plan (GASeP).	Personnel training programmes, in accordance with the Global Aviation Security Plan (GASeP).	2021	2023	CATCs	ICAO	Valid

18	Develop and implement training programmes in accordance with the Global Air Navigation Plan (GANP)	Training programmes for air navigation service personnel, in accordance with the Global Air Navigation Plan (GANP)	2021	2023	CATCs	ICAO	Valid
19	Develop and implement training programmes on the ICAO Environmental Protection Initiative	Report on the training programmes implemented by CATCs	2021	2023	CATCs	ICAO	Valid
20	Follow-up on amendments to ICAO Annexes and PANS, to update CATC training programmes	Report on the impact of amendments to the ICAO Annexes and PANS on training programmes	2021	2023	CATCs	ICAO	Valid

Agenda Item 8: Other business

8.1 Under this agenda item, no working papers nor information papers were presented.