



ICAO

TRAINING

# TRAINING IN FIGURES

— TRAINAIR PLUS —

## 2019

A STATISTICAL ABSTRACT OF ICAO TRAINING ACTIVITIES

Assessments | Design and Development | Training Needs Analysis  
Courses | Members & Partners | Training Services



## ICAO TRAINING IN FIGURES 2019

Divided into 3 thematic sections, the 2019 edition of ICAO Training in Figures presents a detailed statistical overview of all training activities implemented during the year by the ICAO's Global Aviation Training Section (GAT), its TRAINAIR PLUS Members, and the ICAO's Air Transport Bureau (ATB) through its network of regional Aviation Security Training Centres (ASTCs). In-depth sections and glossaries have been added to this report to clearly identify topics of interest, and make a better use of the information provided.

This booklet is distributed to ICAO Member States, TRAINAIR PLUS Members, ASTCs and international organisations.

The online version of ICAO's Training in Figures 2019 is also accessible at [www.icao.int/training](http://www.icao.int/training), where it can be downloaded in its full version or browsed per individual thematic sections.

Please note that the contents of this course catalogue is comprised of training packages validated as of 24 February 2020.

This catalogue will be updated on an bi-annual basis.

For up-to-date information, please visit the ICAO Global Aviation Training website at [www.icao.int/training](http://www.icao.int/training).

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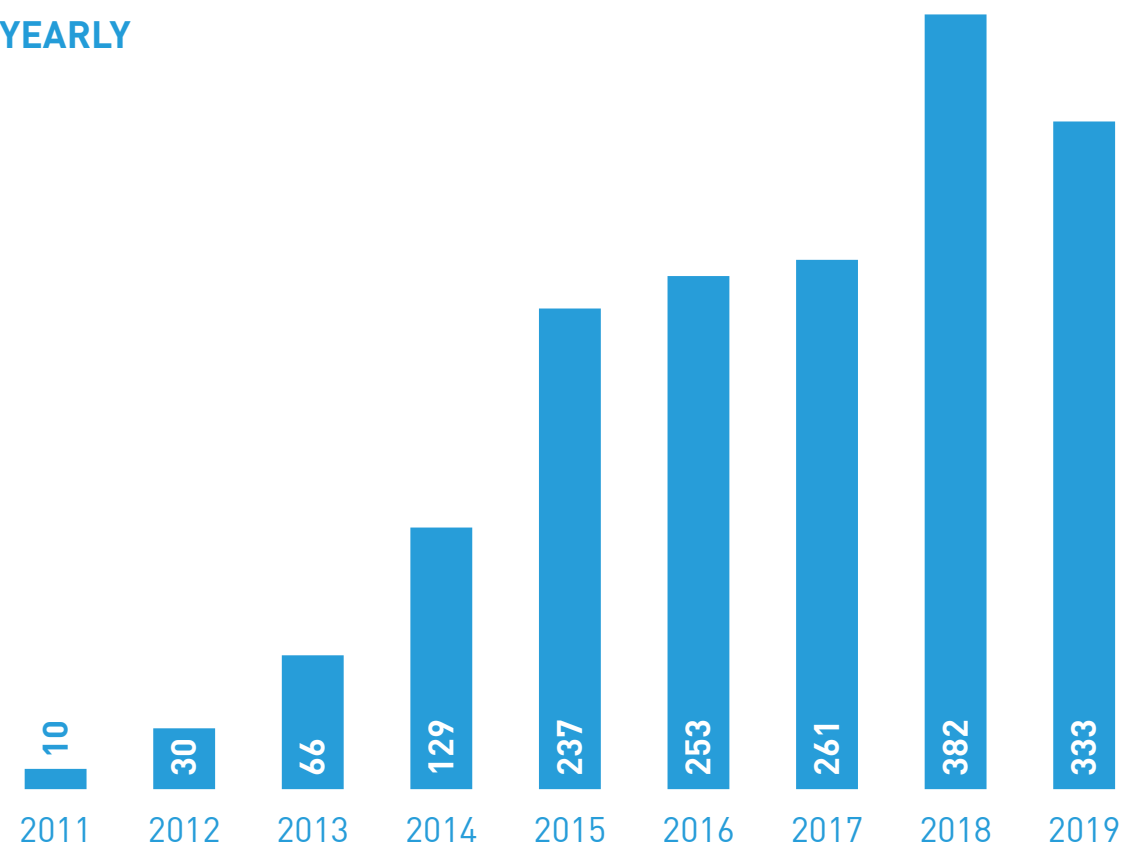
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# GLOBAL OUTLOOK

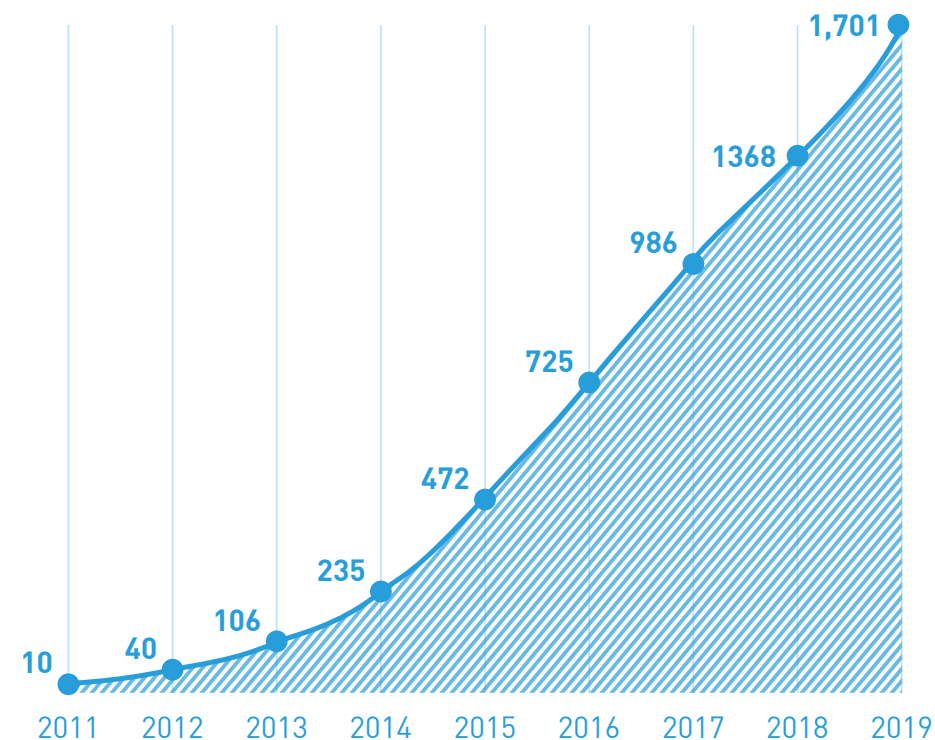


# COURSES DELIVERED GLOBALLY

## YEARLY



## CUMULATIVE



# ONLINE COURSES DELIVERED IN 2019

## ONLINE COURSES DELIVERED IN 2019

Training package	Trainees
Performance Based Navigation - PBN courses	147
- Performance-Based Navigation (PBN) Overview: Online	47
- Performance-Based Navigation (PBN) Operations Approval: Online	14
- Performance-Based Navigation (PBN) Airspace Design: Online	10
- Performance-Based Navigation (PBN) for Air Traffic Controllers: Online	48
- Performance-Based Navigation (PBN) for Pilots: Online	28
Universal Safety Oversight Audit Programme Continuous Monitoring Approach (USOAP CMA): Online	245
Fundamentals of the Air Transport System	1456
- Fundamentals of the Air Transport System	1366
- Fundamentals of the Air Transport System - Exam	90
Safety Management: Online	375
Aviation Data-driven Decision Making (AD3M) - Part 1: Online	107
Training Instructors Course (TIC) Part 1 - Instructional Competencies: Online	472
ICAO-ACI Global Reporting Format (GRF) - online course	393
<b>Total</b>	<b>3,195</b>

## GLOSSARY

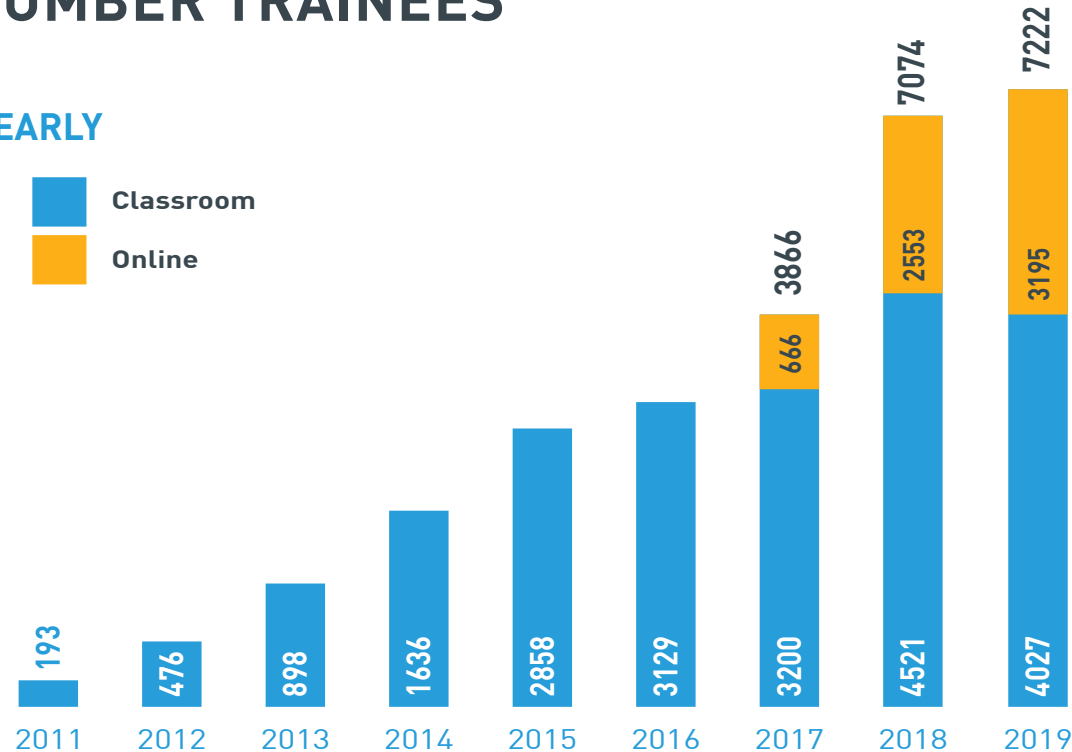
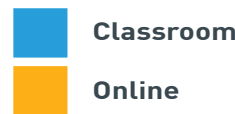
**ICAO Training:** ICAO Training is the acquisition of knowledge and skills provided by ICAO and/or training organizations associated with ICAO issuing a certificate of completion or a certificate of achievement with the ICAO emblem or an ICAO programme emblem.

**Classroom Courses:** GAT has an extensive portfolio of face-to-face courses that are delivered in traditional format, led by an ICAO-qualified instructor in a classroom environment. Classroom courses are the only mode of delivery where access to technology and high-speed internet is limited, with no access to online and/or virtual courses. The delivery of the classroom portfolio is managed through the TRAINAIR PLUS Electronic Management System (TPEMS).

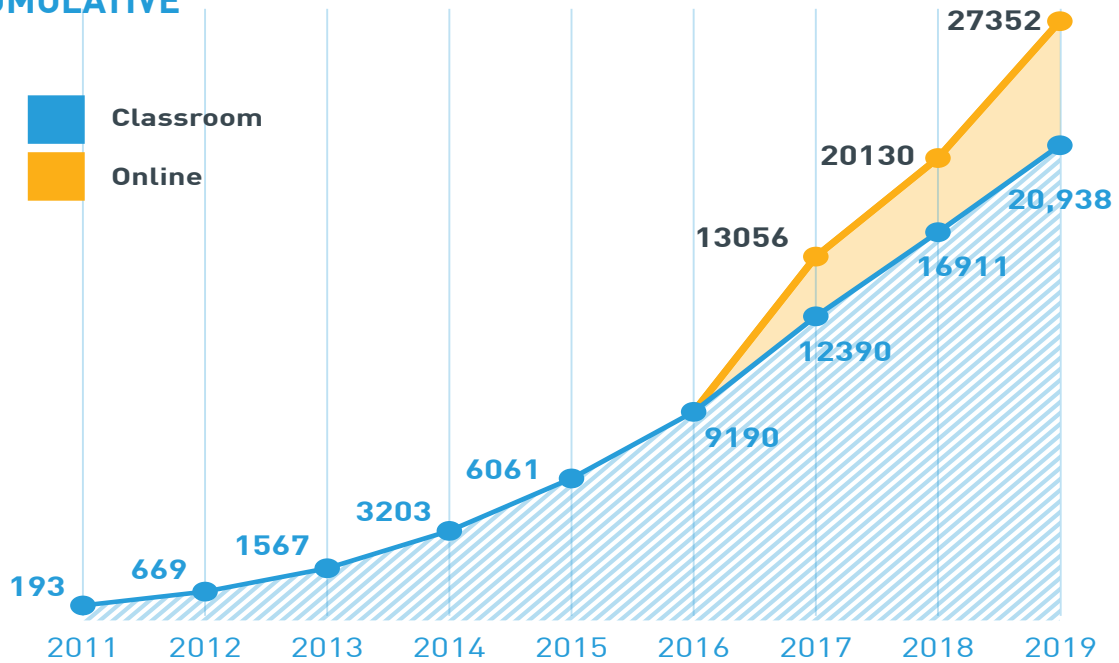
**Online Courses:** Online courses offer the flexibility of learning at one's own pace to achieve the goal of learning anytime, anywhere. In addition to knowledge acquisition, the interactive and engaging content can build a learner's professional competencies. Learners can benefit from ICAO's online courses across multiple subject areas, including Aerodromes, Air Transport, Air Navigation Services, Flight Safety and Safety Management. ICAO's online courses are hosted on GAT's Learning Management System (LMS). Upon successful completion of the exam, participants receive an e-certificate through the LMS.

# NUMBER TRAINEES

## YEARLY



## CUMULATIVE

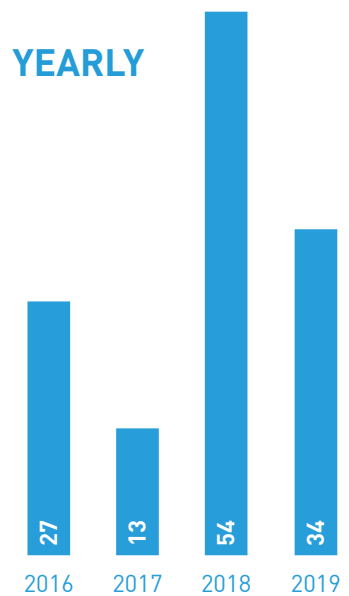


### NOTE

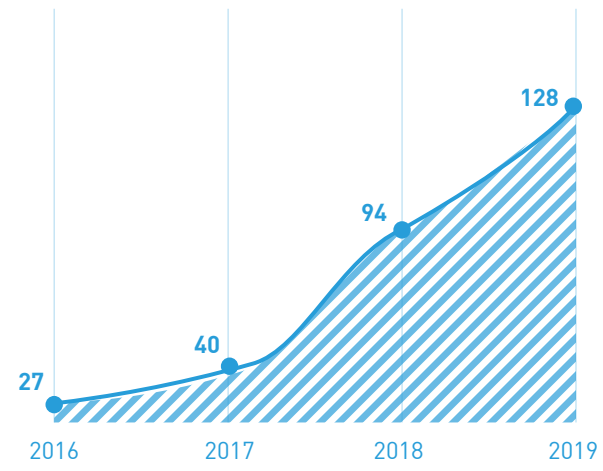
As per Council Decision (C-DEC 217/1), in 2019 GAT put more focus on the development and provision of distance learning training. As a result of these efforts, the number of classroom trainees has slightly decreased in 2019 in favour of a higher participation of trainees to GAT newly developed online courses.

# NUMBER OF INSTRUCTORS

## YEARLY

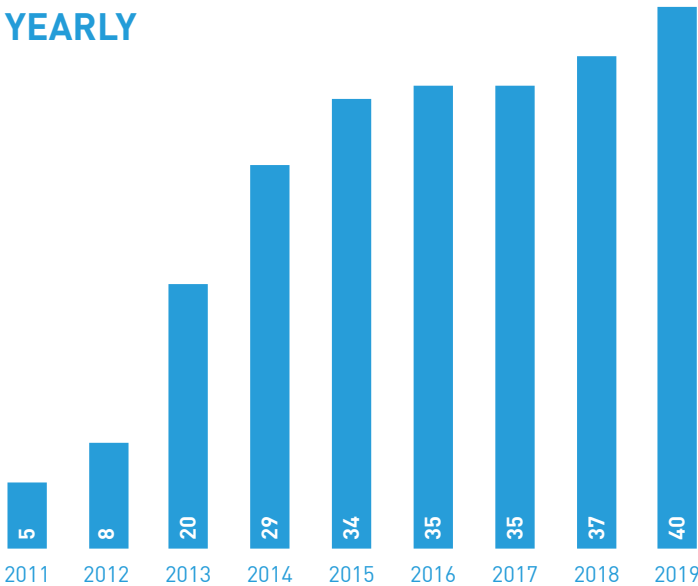


## CUMULATIVE

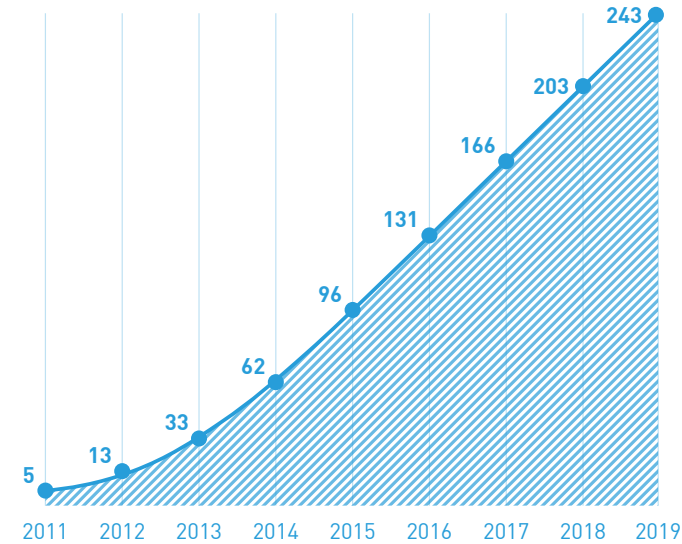


# COURSES DEVELOPED

## YEARLY



## CUMULATIVE

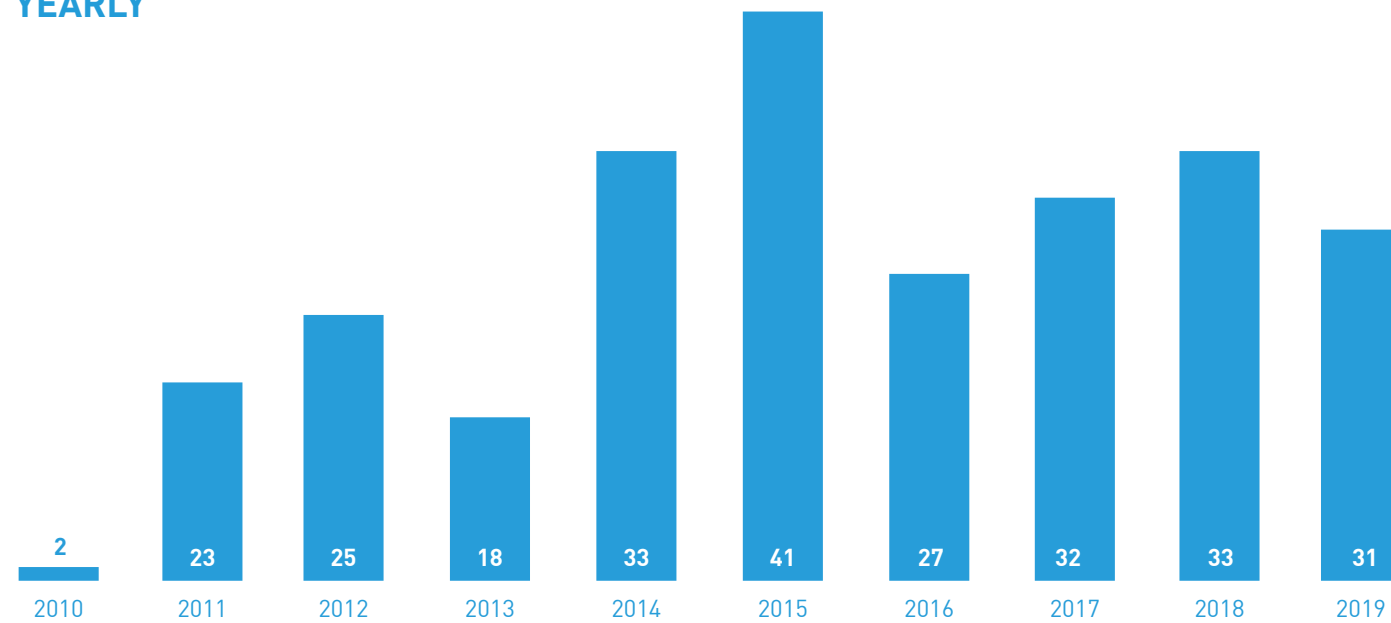


### GLOSSARY

**Competency-based training:** competency-based training is the approach ICAO recommends for training aviation professionals. ICAO aviation training is standardized, based on the analysis of competencies, job-oriented and material-dependent. TRAINAIR PLUS course developers follow competency-based training methodology to develop training courses.

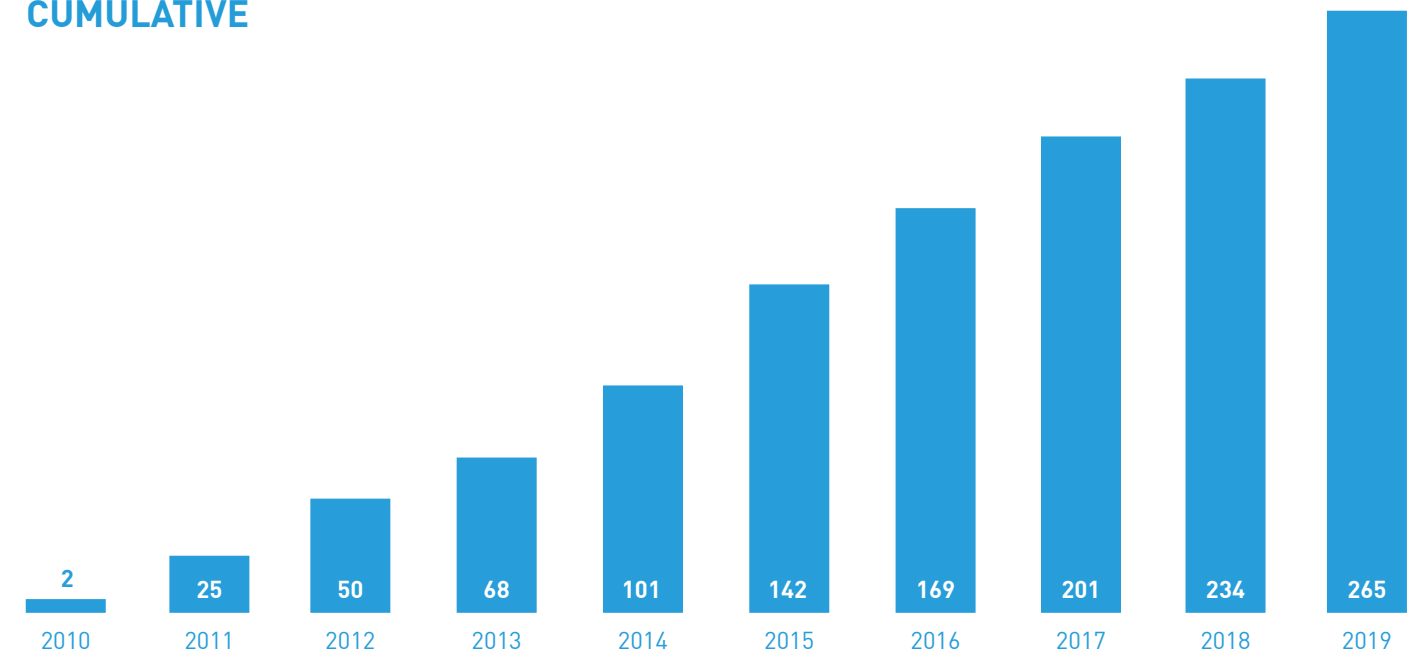
# ASSESSMENTS OF TRAINING CENTRES

## YEARLY



# ASSESSMENTS OF TRAINING CENTRES

## CUMULATIVE



## GLOSSARY

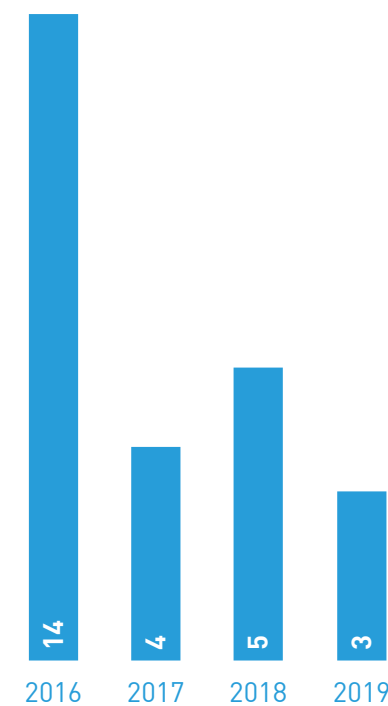
**Assessments:** the TRAINAIR PLUS Programme (TPP) recognizes Training Organizations through an assessment process. Upon application to the Programme, Training Organizations are assessed by ICAO based on specific requirements of TPP. Only Training Organizations compliant with such requirements are recognized as TPP Members.

**Reassessments:** reassessments of TPP Members are carried out every three years. This allows TPP to maintain oversight on the quality of training operations of its Members and TPP activities they conduct while ensuring all Members continue to meet established requirements.

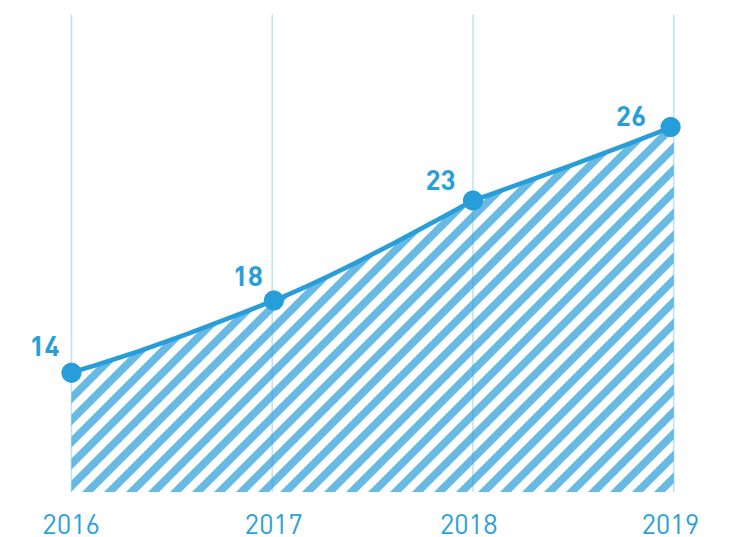
**Validators:** to enhance CATCs capacity-building and reduce the cost of course development, GAT established a qualification process for ICAO Instructional System Design (ISD) validators. These validators must successfully complete the ICAO ISD validator qualification process and hold a valid certificate as an ICAO ISD validator. ICAO ISD validators conduct validations for the development and implementation of competency-based training (STP/CTP/ITP) in their training organization and in the TPP network, in compliance with the ICAO Training Development Guide, Competency-based Training Methodology (Doc 9941), provide On-the-Job Training (OJT) to course developers throughout their first STP development process, give refresher training on the Training Development Guide (TDG) methodology to course developers, and conduct assessments of ICAO Qualified Course Developers (IQCDs) from their training organization for continuous oversight.

# NUMBER OF VALIDATORS

## YEARLY

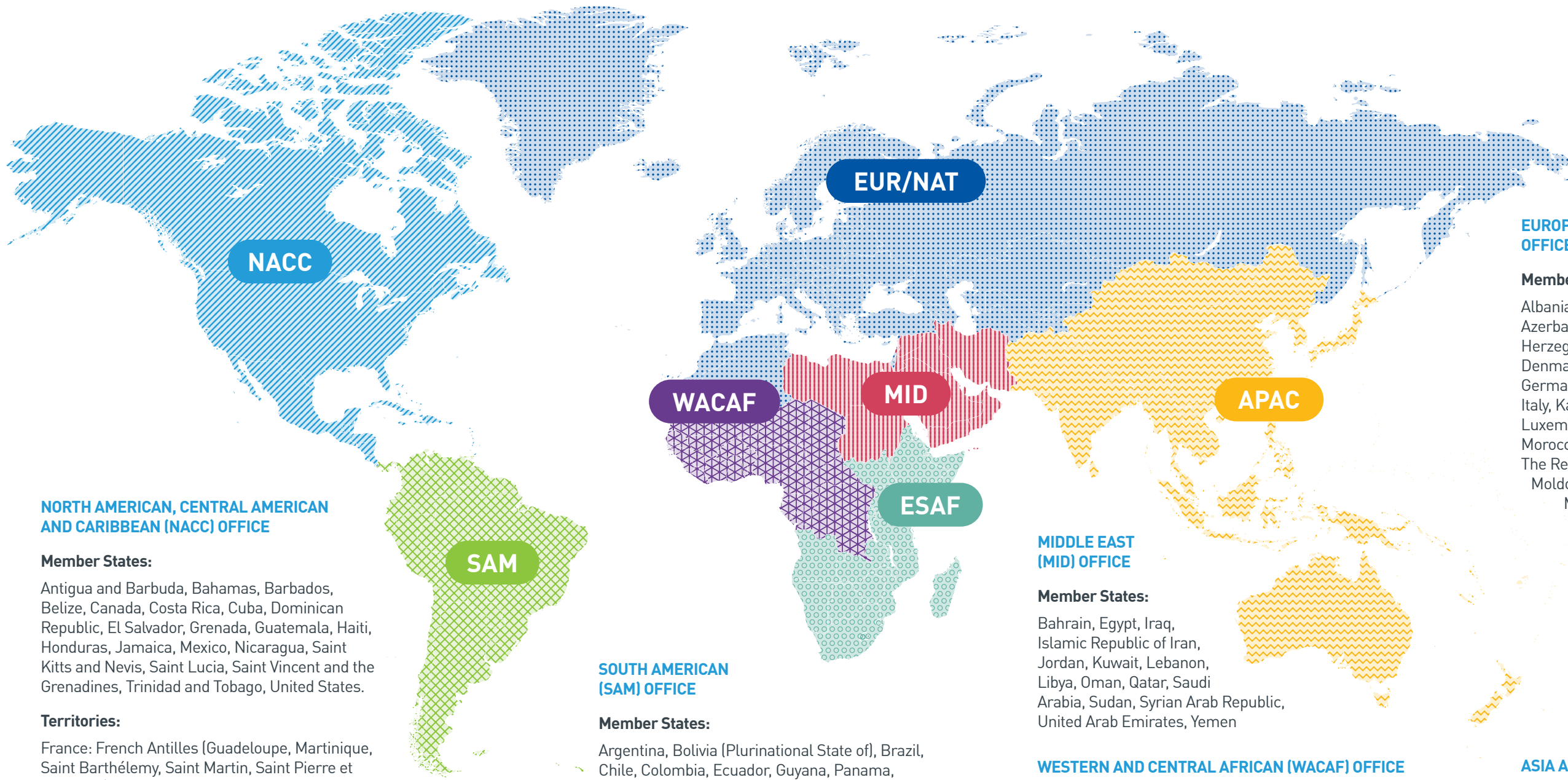


## CUMULATIVE



# REGIONAL OUTLOOK





**NORTH AMERICAN, CENTRAL AMERICAN AND CARIBBEAN (NACC) OFFICE**

**Member States:**  
 Antigua and Barbuda, Bahamas, Barbados, Belize, Canada, Costa Rica, Cuba, Dominican Republic, El Salvador, Grenada, Guatemala, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Trinidad and Tobago, United States.

**Territories:**  
 France: French Antilles (Guadeloupe, Martinique, Saint Barthélemy, Saint Martin, Saint Pierre et Miquelon)  
 Netherlands: Aruba, Curaçao, Sint Maarten, Bonaire, Saba, Sint Eustatius  
 United Kingdom: Anguilla, Bermuda, British Virgin Islands, Cayman Islands, Montserrat, Turks and Caicos Islands  
 United States: Puerto Rico, Virgin Islands.

**GLOSSARY**

**ICAO Regional Offices:** the Regional Offices are primarily responsible for maintaining continuous liaison with the States to which they are accredited and with appropriate organizations, regional civil aviation bodies and UN Agencies and programmes. They ensure interregional coordination and promote the timely and harmonized implementation of ICAO policies, resolutions, decisions, Standards and Recommended Practices (SARPs) and air navigation and aviation safety plans. There are seven ICAO Regional Offices.

**SOUTH AMERICAN (SAM) OFFICE**

**Member States:**  
 Argentina, Bolivia (Plurinational State of), Brazil, Chile, Colombia, Ecuador, Guyana, Panama, Paraguay, Peru, Suriname, Uruguay, Venezuela (Bolivarian Republic of).

**Liaison carried out with:**  
 France: French Guiana  
 United Kingdom: Falkland Islands (Malvinas)\*

\* A dispute exists between the government of Argentina and the government of Great Britain and Northern Ireland concerning the sovereignty of the Falkland Islands (Malvinas).

**EUROPEAN AND NORTH ATLANTIC (EUR/NAT) OFFICE**

**Member States:**  
 Albania, Algeria, Andorra, Armenia, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Luxembourg, Malta, Monaco, Montenegro, Morocco, Netherlands, Norway, Poland, Portugal, The Republic of North Macedonia, Republic of Moldova, Romania, Russian Federation, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tajikistan, Tunisia, Turkey, Turkmenistan, Ukraine, United Kingdom, Uzbekistan.

**MIDDLE EAST (MID) OFFICE**

**Member States:**  
 Bahrain, Egypt, Iraq, Islamic Republic of Iran, Jordan, Kuwait, Lebanon, Libya, Oman, Qatar, Saudi Arabia, Sudan, Syrian Arab Republic, United Arab Emirates, Yemen

**WESTERN AND CENTRAL AFRICAN (WACAF) OFFICE**

**Member States:**  
 Benin, Burkina Faso, Cameroon, Cape Verde, Central African Republic, Chad, Congo, Côte d'Ivoire, Democratic Republic of the Congo, Equatorial Guinea, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Mali, Mauritania, Niger, Nigeria, Sao Tome and Principe, Senegal, Sierra Leone, Togo.

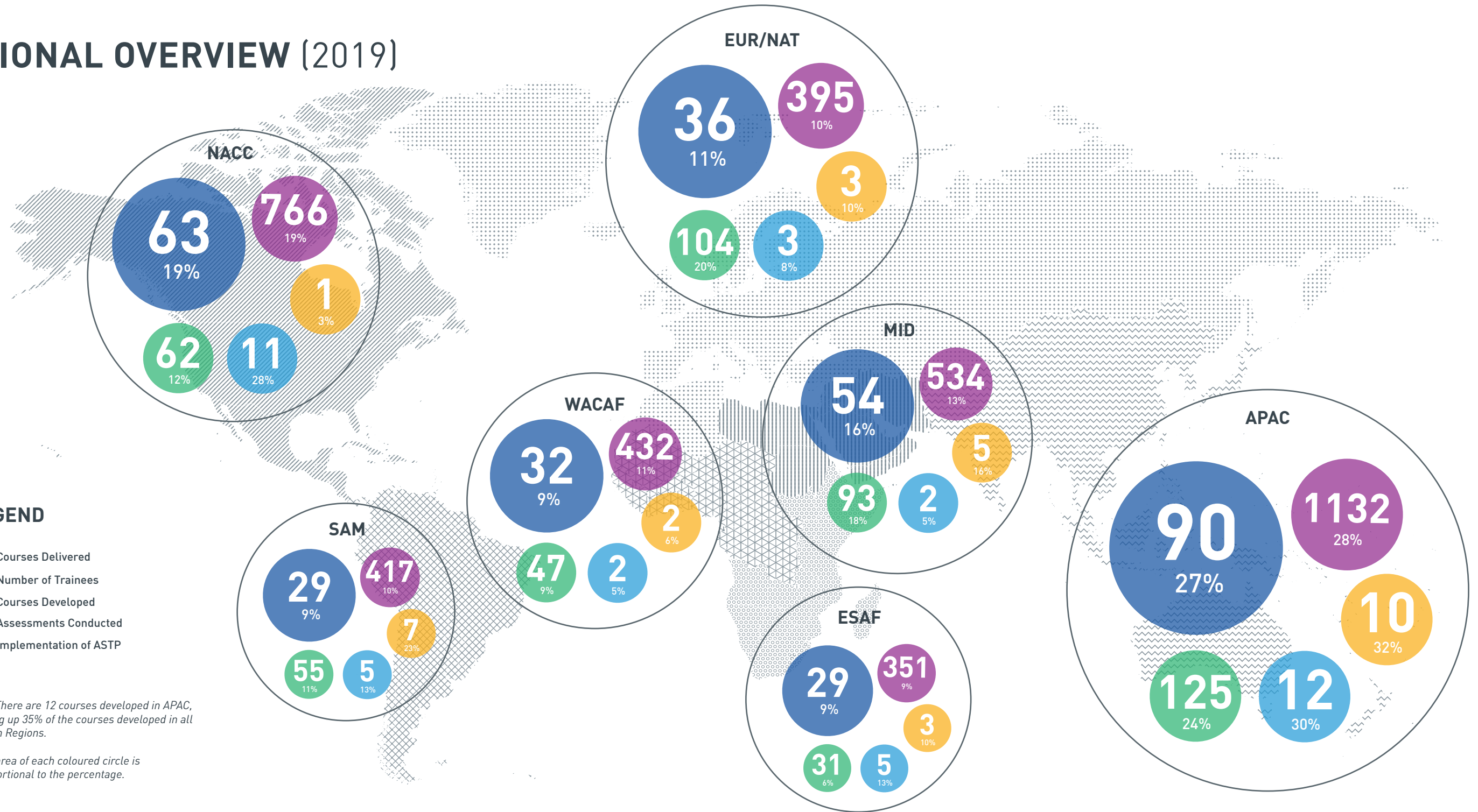
**EASTERN AND SOUTHERN AFRICAN (ESAF) OFFICE**

**Member States:**  
 Angola, Botswana, Burundi, Comoros, Djibouti, Eritrea, Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Rwanda, Seychelles, Somalia, South Africa, South Sudan, Swaziland, Uganda, United Republic of Tanzania, Zambia, Zimbabwe.

**ASIA AND PACIFIC (APAC) OFFICE**

**Member States:**  
 Afghanistan, Australia, Bangladesh, Bhutan, Brunei Darussalam, Cambodia, China, Hong Kong China, Macao China, Cook Islands, Democratic People's Republic of Korea, Fiji, India, Indonesia, Japan, Kiribati, Lao People's Democratic Republic, Malaysia, Maldives, Marshall Islands, Micronesia (Federated States of), Mongolia, Myanmar, Nauru, Nepal, New Zealand, Pakistan, Palau, Papua New Guinea, Philippines, Republic of Korea, Samoa, Singapore, Solomon Islands, Sri Lanka, Thailand, Timor Leste, Tonga, Tuvalu, Vanuatu, Viet Nam.

# REGIONAL OVERVIEW (2019)



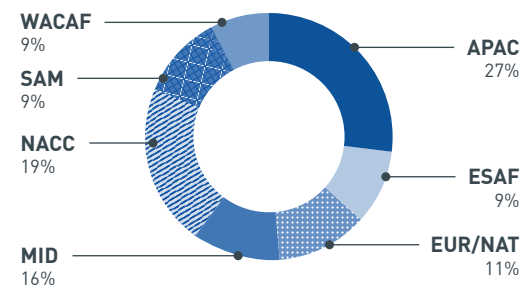
## LEGEND

- Courses Delivered
- Number of Trainees
- Courses Developed
- Assessments Conducted
- Implementation of ASTP

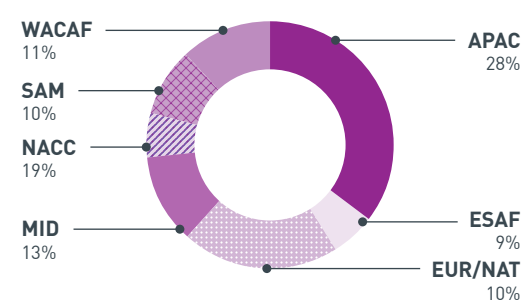
e.g. There are 12 courses developed in APAC, taking up 35% of the courses developed in all seven Regions.

The area of each coloured circle is proportional to the percentage.

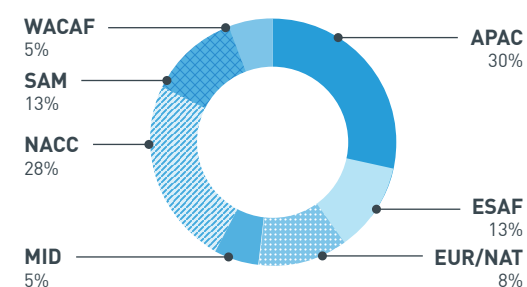
## DELIVERY



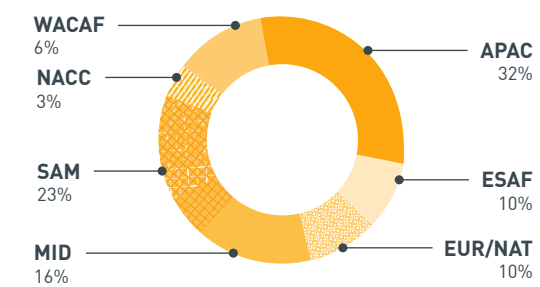
## TRAINEES



## DEVELOPMENT



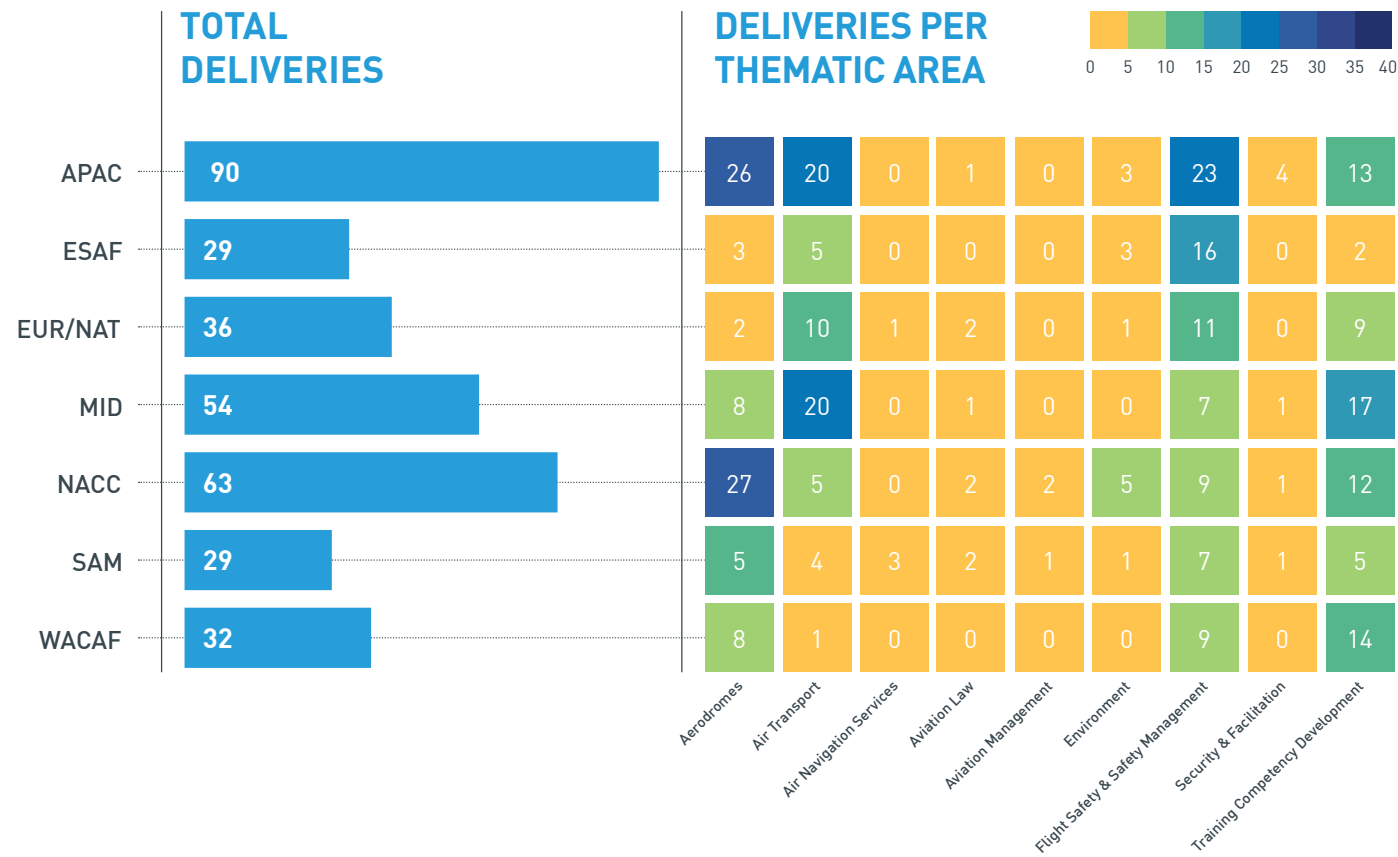
## ASSESSMENT



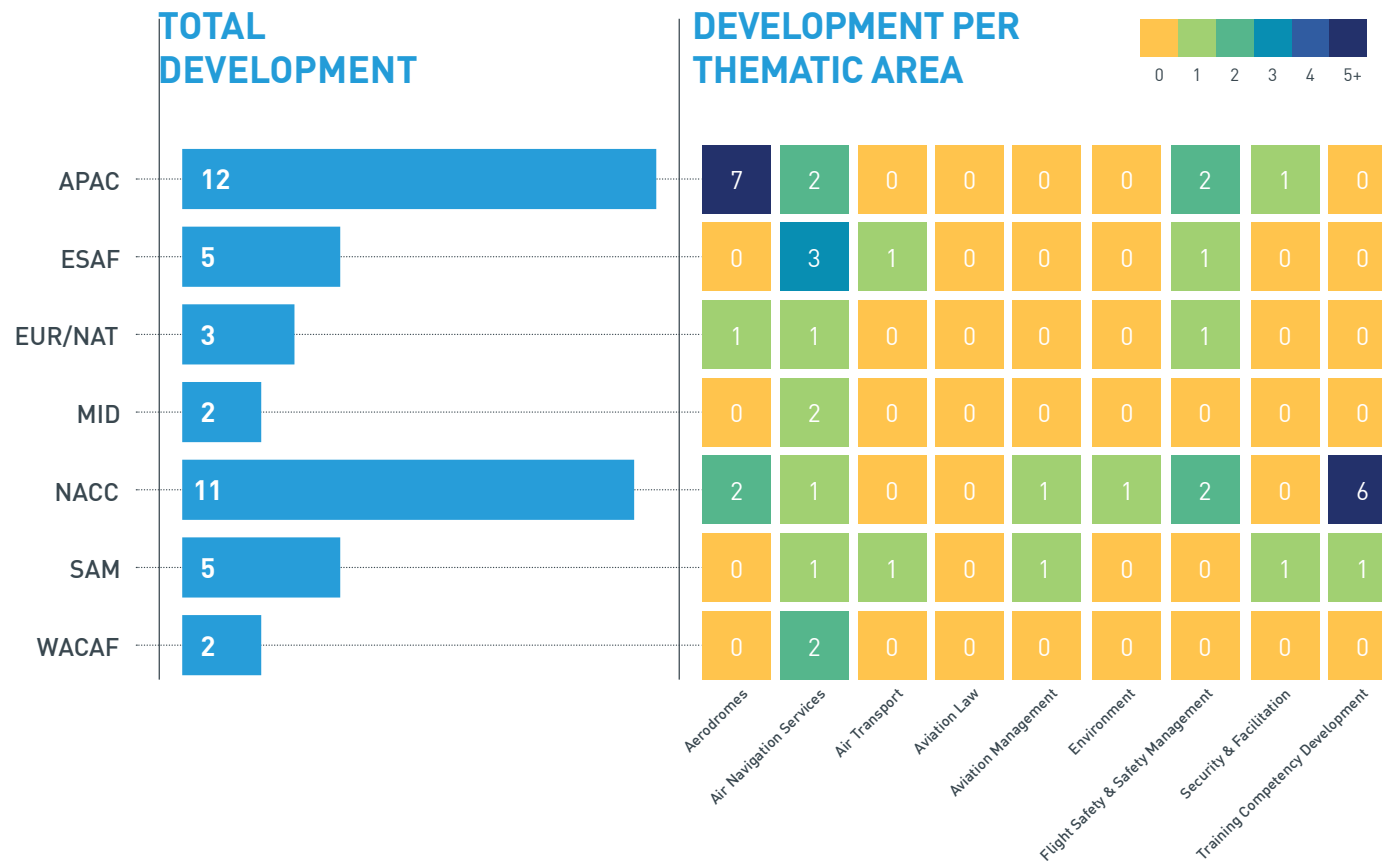
## ASTP IMPLEMENTATION



## COURSES DELIVERED BY ICAO REGION (2019)



## COURSES DEVELOPED BY ICAO REGION (2019)



## COURSES DEVELOPED BY ICAO REGION (2019)

ICAO Region	Course Title	Area
APAC	1 Airport Landside Security (EN)	Security and Facilitation
	2 Oversight of Aircraft Leasing Operations (EN)	Flight Safety and Safety Management
	3 Aerodrome Emergency Handling	Aerodromes
	4 Disabled Aircraft Recovery Procedures	Aerodromes
	5 Airfield Signs	Aerodromes
	6 Passenger Boarding Bridges (PBB) Maintenance Course	Aerodromes
	7 Situation Data Display (SDD) Operation Course	Air Navigation Services
	8 Building Fire Emergencies- First Responder	Aerodromes
	9 NOTAM Specialist Course (Online Phase & Classroom Phases)	Air Navigation Services
	10 Airport Baggage Handling System(BHS) & Hold Baggage Screening(HBS) Design and Management	Aerodromes
	11 Basic Maintenance Continental Motors CD135/CD155 Engines a	Flight Safety and Safety Management
	12 Fire Control Room Management Course	Aerodromes
ESAF	1 ICAO English Language Proficiency Interlocutor/Rater Initial Training (EN)	Flight Safety and Safety Management
	2 ATM/CNS Computer Networking	Air Navigation Services
	3 Weight and Balance for Wide Body Aircraft (B767, B777, B787 and A350)	Air Transport
	4 Approach Control Procedural Refresher	Air Navigation Services
	5 Quality Management System (QMS) Internal Auditors Course	Air Navigation Services
EUR/NAT	1 Conducting a Technical Assistance Visit to CAPSCA Member States and Airports (EN) online course	Flight Safety and Safety Management
	2 Feux Généralisés d'avion	Aerodromes
	3 Initiation aux procédures de vol aux instruments PANs OPS	Air Navigation Services
MID	1 Low Visibility Procedures for Aerodrome Controllers	Air Navigation
	2 Human Factors: The TEM and TRM Interface	Air Navigation
NACC	1 CORSIA Verification	Environment
	2 Training Developers Course (TDC) (EN)	Training Competency Development
	3 Training Developers Course (TDC) (SP)	Training Competency Development
	4 Validating Competency-based Training (VCT) course (EN)	Training Competency Development
	5 Validating Competency-based Training (VCT) course (SP)	Training Competency Development
	6 Training Managers Course (TMC) (EN)	Training Competency Development
	7 Training Managers Course (TMC) (SP)	Training Competency Development
	8 ICAO-ACI Implementing Annex 14: Advanced Aerodrome Design and Operations (AADO)	Aerodromes
	9 ICAO-ACI Global Reporting Format (GRF): online course	Aerodromes
	10 Supervisor Competencies	Aviation Management
	11 Gestión de la Navegación Basada en la Performance (PBN)	Air Navigation Services
SAM	1 Facilitación del Transporte Aéreo	Security and Facilitation
	2 Aviation English Level 3 for Civil Aviation Professionals	Training Competency Development
	3 Auditoría Interna de Calidad de los Procesos Aeronáuticos	Air Transport
	4 Inspector de Mantenimiento Aeronáutico	Aviation Management
	5 Interpretación de Información Meteorológica Aeronáutica Para Tripulantes de Vuelo y Personal de Navegación Aérea	Air Navigation Services
WACAF	1 ATSEP - Data Processing & Automation	Air Navigation Services
	2 ATSEP- System Monitoring & Control	Air Navigation Services

# ASTC ICAO AVIATION SECURITY TRAINING BY ICAO REGION (2019)

APAC	ASTP Courses	Course Language	Participants	
			Male	Female
Kuala Lumpur	Risk Management Workshop	EN	11	4
Hong Kong	Aviation Security Certification Systems Workshop	EN	10	5
Auckland	Risk Management Workshop	EN	14	4
Singapore	Aviation Security National Inspectors Course	EN	8	4
Kunming	Aviation Security National Inspectors Course	EN	14	4
Seoul	Aviation Security Managers Workshop	EN	9	6
New Delhi	National Civil Aviation Security Quality Control Programme	EN	10	4
Hong Kong	ICAO Certification for Aviation Security Instructors	EN	13	5
<b>Total</b>	<b>8 training events</b>	<b>125 participants</b>	<b>89</b>	<b>36</b>

ESAF and WACAF	ASTP Courses	Course Language	Participants	
			Male	Female
Lagos	Risk Management Workshop	EN	14	3
Douala	ICAO Certification for Aviation Security Instructors	FR	15	3
Dakar	National Civil Aviation Security Quality Control Programme	FR	10	2
Nairobi	Airport Security Supervisors Courses	EN	11	5
Johannesburg	Risk Management Workshop	EN	12	3
<b>Total</b>	<b>5 training events</b>	<b>78 participants</b>	<b>62</b>	<b>16</b>

## GLOSSARY

In 1992, ICAO established a network of regional Aviation Security Training Centres (ASTCs), primarily to aid ICAO in the promulgation of newly developed Aviation Security Training Packages (ASTPs) and aviation security workshops which were designed to assist States in the implementation of Annex 17. As of 4th Quarter 2018, the ASTC Network consisted of 35 Centres, of which 14 are TRAINAIR PLUS Programme Members that have been endorsed, supported and/or overseen by their National Appropriate Authority for Civil Aviation Security. The Implementation Support and Development Section (Security) of the Air Transport Bureau (ATB) provides leadership and support to Aviation Security Training Centres (ASTCs), and collaborates with the GAT Office to harmonize the strategic and operational aspects regarding the management of the Aviation Security Training Programme.

EUR/NAT	ASTP Courses	Course Language	Participants	
			Male	Female
Dublin	Aviation Security National Inspectors Course	EN	4	5
Moscow	Airport Security Supervisors Course	RU	12	1
Almaty	Risk Management Workshop	RU	15	2
NAU - Kyiv	Aviation Security National Inspectors Course	RU	6	2
Minsk	ICAO Certification For Aviation Security Instructors	RU	5	7
Casablanca	Airport Security Supervisors Courses	FR	N/A	N/A
Tunis	Risk Management Workshop	FR	9	0
Boryspil - Kyiv	Air Cargo And Mail Security Course	RU	6	3
Doncaster	Risk Management Workshop	EN	6	4
<b>Total</b>	<b>9 training events</b>	<b>104 participants</b>	<b>63</b>	<b>24</b>

MID	ASTP Courses	Course Language	Participants	
			Male	Female
Amman	Risk Management Workshop	AR	19	1
Beirut	Risk Management Workshop	EN	14	2
Dubai	Risk Management Workshop	EN	11	0
Jeddah	Risk Management Workshop	AR	15	2
Cairo	Aviation Security (AVSEC) Instructors Course	AR	14	0
ICAO-RO Cairo	Risk Management Workshop	EN	13	2
<b>Total</b>	<b>6 training events</b>	<b>93 participants</b>	<b>86</b>	<b>7</b>

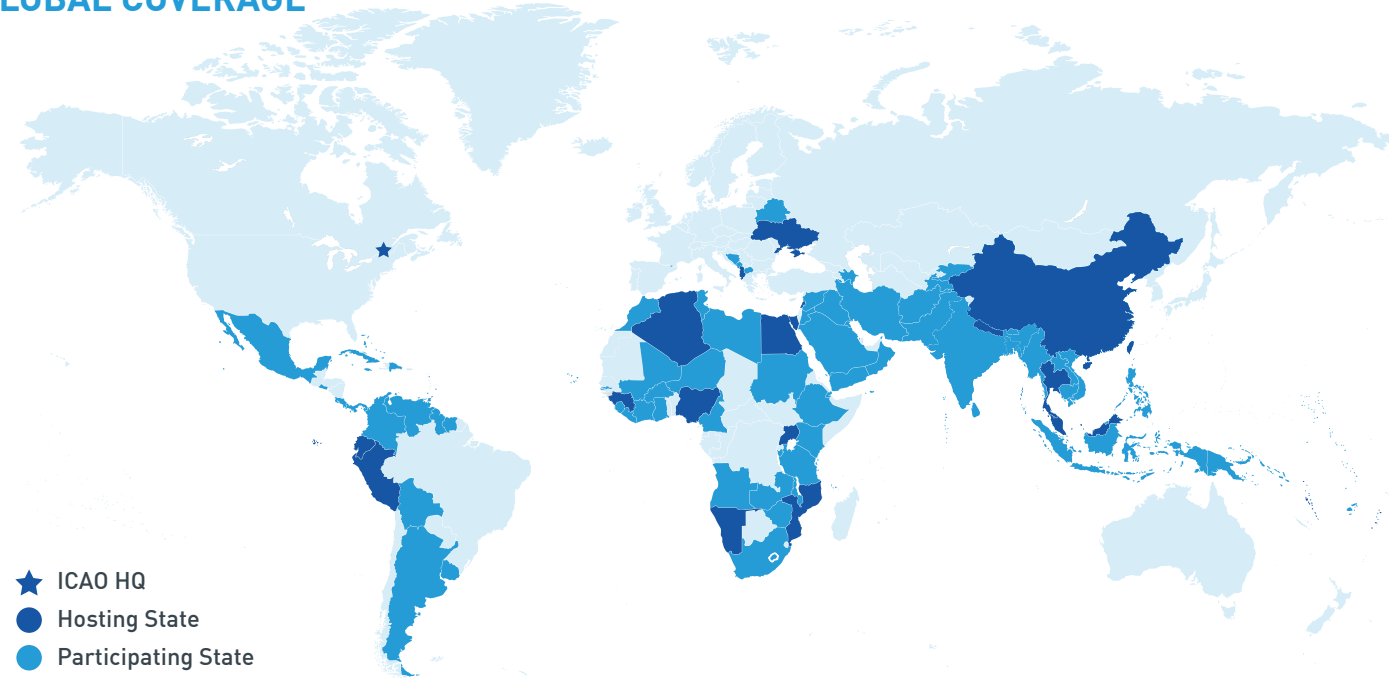
  

NACC and SAM	ASTP Courses	Course Language	Participants	
			Male	Female
Santo Domingo	ICAO Certification for Aviation Security Instructors	SP	7	6
Quito	Aviation Security National Inspectors Course	SP	6	6
Buenos Aires	Risk Management Workshop	SP	19	6
Mexico City	Risk Management Workshop	SP	16	2
Port of Spain	Risk Management Workshop Train-The-Trainer Session	EN	6	5
Port of Spain	Risk Management Workshop	EN	13	7
Buenos Aires	Risk Management Workshop	SP	15	2
<b>Total</b>	<b>7 training events</b>	<b>117 participants</b>	<b>82</b>	<b>34</b>

# 2019 CIVIL AVIATION AUTHORITY SENIOR AND MIDDLE MANAGERS TRAINING COURSE (CAA SMMTC)

FULLY FUNDED BY THE GOVERNMENT OF CHINA

## GLOBAL COVERAGE



- ★ ICAO HQ
- Hosting State
- Participating State

# THEMATIC OUTLOOK

## GLOSSARY

**CAA SMMTC:** ICAO developed and delivered a Civil Aviation Authority Senior and Middle Managers Training Course (CAA SMMTC). The course aimed to enhance the skills of senior and middle management of Civil Aviation Authorities (CAAs), in order to effectively manage the implementation of ICAO Standards and Recommended Practices (SARPs) related to the areas of safety, air navigation, security and facilitation. The course was developed and delivered with the support of the Government of China, and covered course tuitions, transportation, accommodations, venues etc.

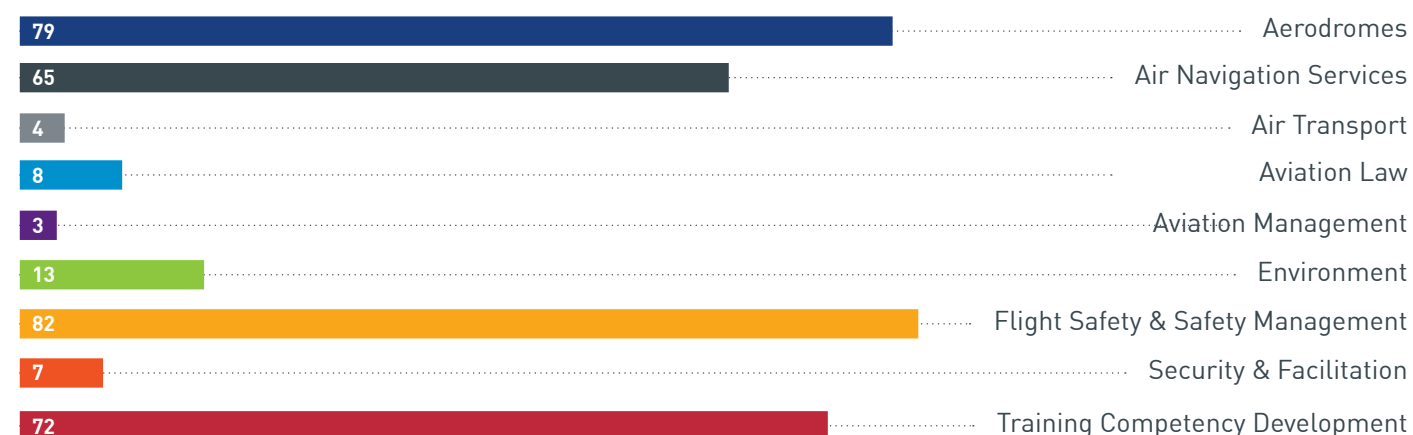
## NUMBER OF TRAINEES

TOTAL	351
APAC	66
ESAF	41
EUR/NAT	36
MID	44
NACC	38
SAM	41
WACAF	85

## Resource Mobilization Training

TRAINING PACKAGE	NUMBER OF TRAINEES	APAC	ESAF	EUR/NAT	MID	NACC	SAM	WACAF	TOTAL
1 Civil Aviation Authority Senior and Middle Managers Training Course (CAA SMMTC)	66	41	36	44	38	41	85	351	

## COURSES DELIVERED BY THEMATIC AREA (2019)



### Aerodromes

TRAINING PACKAGE	NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
1 Aerodrome Emergency Handling Course	11	0	0	0	0	0	0	0	11
2 Aerodrome Inspection	102	0	0	0	0	29	0	0	131
3 Airfield Pavement Markings	18	0	0	0	0	0	0	0	18
4 Airfield Signs	16	0	0	0	0	0	0	0	16
5 Airport Baggage Handling System(BHS) & Hold Baggage Screening(HBS) Design and Management	10	0	0	0	0	0	0	0	10
6 Airport Customer Service Quality Management	41	0	0	0	0	0	0	0	41
7 Airport Emergency Procedures	0	0	0	0	0	0	27	0	27
8 Airport Passenger Boarding Bridge (PBB) Operations	12	5	0	0	0	0	0	0	17
9 Atención al Usuario Aeroportuario	0	0	0	29	0	0	0	0	29
10 Basic Airside Operations	0	4	0	0	0	0	0	0	4
11 Breathing Apparatus Command and Control Operations	10	0	0	0	0	0	0	0	10
12 Coordinación de las operaciones aeroportuarias	0	0	20	0	0	0	0	0	20
13 Coordinación y supervisión del proceso de manejo de combustibles de aviación	0	0	20	0	0	0	0	0	20
14 Curso de operador de vehículos ARFF	0	0	0	9	0	0	0	0	9
15 Emergency Tabletop Exercises Management	0	17	0	0	15	0	0	0	32
16 Entrenamiento Recurrente en condiciones de fuego vivo y a presión a bomberos aeronáuticos	0	0	163	0	0	0	0	0	163
17 ICAO-ACI Aerodrome Certification	0	60	11	0	14	0	40	0	125
18 ICAO-ACI Airport Users Charges	21	0	0	0	0	0	0	0	21

TRAINING PACKAGE	NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
19 ICAO-ACI Implementing Annex 14: Advanced Aerodrome Design and Operations (AADO)	12	21	0	0	0	0	0	0	33
20 Infrastructure and Facilities for Passengers with Reduced Mobility (PRM)	15	0	0	0	0	0	0	0	15
21 Lutte contre les feux mineurs d'avion	0	0	0	0	0	0	66	0	66
22 Manejo de Combustibles de Aviación	0	0	107	0	0	0	0	0	107
23 Operaciones y Servicios Aeroportuarios y Complementarios en la Certificación de Aeródromos	0	0	29	0	0	0	0	0	29
24 Passenger way-finding signage	6	0	0	0	0	0	0	0	6
25 Runway Rubber Removal	8	0	0	0	0	0	0	0	8
26 Supervising Airport Teams To Deliver Great Customer Service	20	0	0	0	0	0	0	0	20
27 Supervisión de los Servicios en Plataforma y Área de Movimiento a Tráfico Civil	0	0	0	27	0	0	0	0	27
<b>Total</b>	<b>302</b>	<b>107</b>	<b>350</b>	<b>65</b>	<b>29</b>	<b>29</b>	<b>133</b>	<b>1015</b>	

### Air Navigation Services

TRAINING PACKAGE	NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
1 Aerodrome CNS Engineering Course	57	0	0	0	0	0	0	0	57
2 Aerodrome Control Initial Training	0	12	0	0	0	0	0	0	12
3 Aeronautical Information Management (AIM) Specialist	5	0	0	0	0	0	0	0	5
4 Aeronautical Internet Protocol Network (AIPN) Maintenance	29	0	0	0	0	0	0	0	29
5 Aeronautical Search and Rescue Operations	16	0	0	0	0	0	0	0	16
6 Air Navigation Services AIS Inspector	0	0	0	0	0	13	0	0	13
7 Air Navigation Services ATM Inspector	0	0	0	0	0	14	0	0	14
8 Air Navigation Services CNS Inspector	0	0	0	0	0	14	0	0	14
9 Air Navigation Services MET Inspector	0	0	0	0	0	8	0	0	8
10 Air Traffic Services Supervisor	0	11	0	0	0	0	0	0	11
11 AIS/MAP Publications Specialist	2	0	0	0	0	0	0	0	2
12 Approach Control Procedural Basic	80	0	0	0	0	0	0	0	80
13 ATC Simulator/OJT instructor course	0	0	0	0	96	0	0	0	96
14 ATM Incident Investigation Techniques	0	47	0	0	0	0	0	0	47
15 ATSEP - Airport Power Systems and Facilities Maintenance	0	0	0	0	0	0	9	0	9

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
16	Curso Operador de Búsqueda, Salvamento y Rescate - SAR (Básico)	0	0	0	66	0	0	0	66	
17	Facteurs Humains / opérateurs de première ligne ATM	0	0	0	0	22	0	0	22	
18	Flight Data Processing in ATC Surveillance Operations	0	0	16	0	0	0	0	16	
19	Gestion Automatizada de Planes de Vuelo	0	0	18	0	0	0	0	18	
20	Handling Emergencies and Unexpected Events in Terminal and En-Route Airspace	6	0	0	0	0	0	0	6	
21	Human Factors: The TEM and TRM Interface	0	53	0	0	0	0	0	53	
22	Inicial ATC Aeródromo	0	0	12	0	0	0	0	12	
23	Low Visibility Procedures for Aerodrome Controllers	0	10	0	0	0	0	0	10	
24	Mantenimiento Sistema Terrestre VOR Selex 1150	0	0	0	4	0	0	0	4	
25	Mantenimiento Sistema VHF Alcance Extendido	0	0	0	11	0	0	0	11	
26	NOTAM Specialist Course / Classroom Phase	8	0	0	0	0	0	0	8	
27	Search Area Calculation for SAR Operation	8	0	0	0	0	0	0	8	
28	Thales DVOR Maintenance Course	19	0	0	0	0	0	0	19	
29	VHF (OTE) Tx/Rx Maintenance Course	20	0	0	0	0	0	0	20	
<b>Total</b>		<b>250</b>	<b>133</b>	<b>46</b>	<b>81</b>	<b>118</b>	<b>49</b>	<b>9</b>	<b>686</b>	

## Air Transport

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
1	Gestion efficace du Processus Lettres OACI aux États	0	0	0	0	6	0	0	6	
2	Pintura Aeronáutica - PAINTAIR	0	0	0	9	0	0	0	9	
3	Inspección de Pintura y Recubrimiento Aeronáutico	0	0	0	5	0	0	0	5	
4	Auditoría Interna de Calidad de los Procesos Aeronáuticos	0	0	0	11	0	0	0	11	
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>31</b>	

## Aviation Law

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
1	International Air Law Course	21	14	17	0	24	0	0	76	
2	Cours de Droit Aérien International	0	0	0	0	17	0	0	17	
3	Curso de Derecho Aeronáutico Internacional	0	0	11	40	0	0	0	51	
<b>Total</b>		<b>21</b>	<b>14</b>	<b>28</b>	<b>40</b>	<b>41</b>	<b>0</b>	<b>0</b>	<b>144</b>	

## Aviation Management

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
1	"Inspector de Mantenimiento Aeronáutico"	0	0	0	13	0	0	0	13	
2	Supervisor Competencies	0	0	28	0	0	0	0	28	
<b>Total</b>		<b>0</b>	<b>0</b>	<b>28</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>41</b>	

## Environment

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
1	Carbon Offsetting and Reduction Scheme for International Aviation (CORSA) Verification	52	0	46	10	4	37	0	149	
<b>Total</b>		<b>52</b>	<b>0</b>	<b>46</b>	<b>10</b>	<b>4</b>	<b>37</b>	<b>0</b>	<b>149</b>	

## Flight Safety & Safety Management

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
1	ECCAIRS - European Co-ordination Centre for Accident and Incident Reporting Systems (ECCAIRS) Technical Course	0	0	0	0	0	0	11	11	
2	ECCAIRS - European Co-ordination Centre for Accident and Incident Reporting Systems (ECCAIRS) End User Course	3	15	0	0	0	0	14	32	
3	ICAO Government Safety Inspector Airworthiness - Air Operator and Approved Maintenance Organization Certification (GSI-AIR-18701)	0	16	0	0	0	34	2	52	
4	Personnel Licensing System Course - online	24	0	0	0	0	0	0	24	
5	Personnel Licensing System Course	24	0	0	0	0	0	0	24	
6	Oversight of Aircraft Leasing Operations	6	0	0	0	0	0	0	6	
7	Aviation Data-driven Decision Making	50	0	12	0	4	0	0	66	
8	CAA Senior and Middle Managers Training Course: Managing Compliance with ICAO SARPs	66	45	49	41	38	41	86	366	
9	Dangerous Goods - Using the Technical Instructions for the Safe Transport of Dangerous Goods by Air	35	0	16	0	0	12	0	63	
10	ICAO Government Safety Inspector Operations - Air Operator Certification Course (GSI-OPS-18700)	2	0	14	0	10	44	0	70	
11	ICAO Government Safety Inspector Personnel Licensing Course (GSI-PEL-18710)	8	0	11	0	0	34	12	65	
12	Safety Management for Practitioners (SMxP)	66	0	33	0	16	60	0	175	

## Flight Safety & Safety Management

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
13	IAASM-SAA Postgraduate Certificate in Aviation Medicine for Medical Examiners and Assessors	20	0	0	0	0	0	0	0	20
14	Procedimientos avanzados en la investigación de campo de accidentes aéreos	0	0	0	6	0	0	0	0	6
15	"Técnico de mantenimiento en sistema de interconexión de cableado eléctrico de aeronaves"	0	0	0	48	0	0	0	0	48
16	Interventions efficaces en cas d'incidents ou déversement de carburant	0	0	0	0	22	0	0	0	22
17	Aviation Medical Examiner (Basic Course)	0	8	0	0	0	0	0	0	8
18	Gestión de Riesgo en la Aviación Civil	0	0	0	11	0	0	0	0	11
19	Operational Hazard Identification and Risk Mitigation	32	0	0	0	0	0	0	0	32
20	SORA- Safety Occurrence Reporting and Analysis	0	0	0	0	23	0	0	0	23
21	Flight Permission Officer	0	4	0	0	0	0	0	0	4
<b>Total</b>		<b>336</b>	<b>88</b>	<b>135</b>	<b>106</b>	<b>113</b>	<b>225</b>	<b>125</b>	<b>1128</b>	

## Security & Facilitation

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
1	Control de la autenticidad y validez de documentos de viaje en fronteras aeroportuarias – Nivel 1	0	0	20	0	0	0	0	0	20
2	Control of the Authenticity and Validity of Travel Documents at Airport Borders - Level 1 (Arab)	0	20	0	0	0	0	0	0	20
3	ICAO-ACI Management of Airport Security	28	0	0	0	0	0	0	0	28
4	Screening Passengers with Disabilities or Reduced Mobility(PDRM)	10	0	0	0	0	0	0	0	10
5	Assessing Threat through Behaviour Detection	10	0	0	0	0	0	0	0	10
6	Facilitación del Transporte Aéreo	0	0	0	15	0	0	0	0	15
<b>Total</b>		<b>48</b>	<b>20</b>	<b>20</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>103</b>

## Training Competency Development

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
1	Managing Aviation Training Intelligence (MATI)	0	0	6	0	9	0	6	0	21
2	Post-Training Evaluation (PTE) Course	0	0	0	11	22	0	0	0	33
3	Training Developers Course (TDC)	57	41	20	0	13	16	10	0	157
4	Formation de concepteur de cours	0	0	0	0	0	0	15	0	15
5	Curso de preparadores de instrucción	0	0	15	15	0	0	0	0	30
6	Training Instructors Course (TIC) Part 2	67	77	38	0	10	7	73	0	272
7	Cours de formation instructeurs	0	0	0	0	2	0	21	0	23
8	Curso de Formación de Instructores (CFI)	0	0	8	24	8	0	0	0	40
9	Training Managers Course (TMC)	15	7	0	0	20	0	28	0	70
10	Validating Competency-based Training (VCT)	5	0	0	0	0	0	0	0	5
11	Validación de la instrucción basada en competencias	0	0	7	0	0	0	0	0	7
12	On-the-Job Training Instructor	0	26	19	12	0	0	0	0	57
<b>Total</b>		<b>144</b>	<b>151</b>	<b>113</b>	<b>62</b>	<b>84</b>	<b>23</b>	<b>153</b>	<b>730</b>	

## COURSES DEVELOPED BY THEMATIC AREA (2019)

### Aerodromes

- 1 Aerodrome Emergency Handling
- 2 Airfield Signs
- 3 Airport Baggage Handling System(BHS) & Hold Baggage Screening(HBS) Design and Management
- 4 Disabled Aircraft Recovery Procedures
- 5 Feux Généralisés d'avion
- 6 Fire Control Room Management Course
- 7 ICAO-ACI Implementing Annex 14: Advanced Aerodrome Design and Operations (AADO)
- 8 ICAO-ACI Global Reporting Format (GRF): online course
- 9 Passenger Boarding Bridges (PBB) Maintenance Course

### Air Navigation Services

- 1 Approach Control Procedural Refresher
- 2 ATM/CNS Computer Networking
- 3 ATSEP - Data Processing & Automation
- 4 ATSEP- System Monitoring & Control
- 5 Auditoría Interna de Calidad de los Procesos Aeronáuticos
- 6 Gestión de la Navegación Basada en la Performance (PBN)
- 7 Human Factors: The TEM and TRM Interface
- 8 Initiation aux procédures de vol aux instruments PANs OPS
- 9 Interpretación de Información Meteorológica Aeronáutica Para Tripulantes de Vuelo y Personal de Navegación Aérea
- 10 Low Visibility Procedures for Aerodrome Controllers
- 11 NOTAM Specialist Course (Online Phase & Classroom Phases)
- 12 Quality Management System (QMS) Internal Auditors Course
- 13 Situation Data Display (SDD) Operation Course

### Air Transport

- 1 Weight and Balance for Wide Body Aircraft (B767, B777, B787 and A350)

### Aviation Management

- 1 Aviation English Level 3 for Civil Aviation Professionals
- 2 Inspector de Mantenimiento Aeronáutico
- 3 Supervisor Competencies

### Environment

- 1 CORSIA Verification

### Flight Safety and Safety Management

- 1 Basic Maintenance Continental Motors CD135/CD155 Engines
- 2 Conducting a Technical Assistance Visit to CAPSCA Member States and Airports (EN) online course
- 3 ICAO English Language Proficiency Interlocutor/Rater Initial Training (EN)
- 4 Oversight of Aircraft Leasing Operations (EN)

### Security and Facilitation

- 1 Airport Landside Security (EN)
- 2 Facilitación del Transporte Aéreo

### Training Competency Development

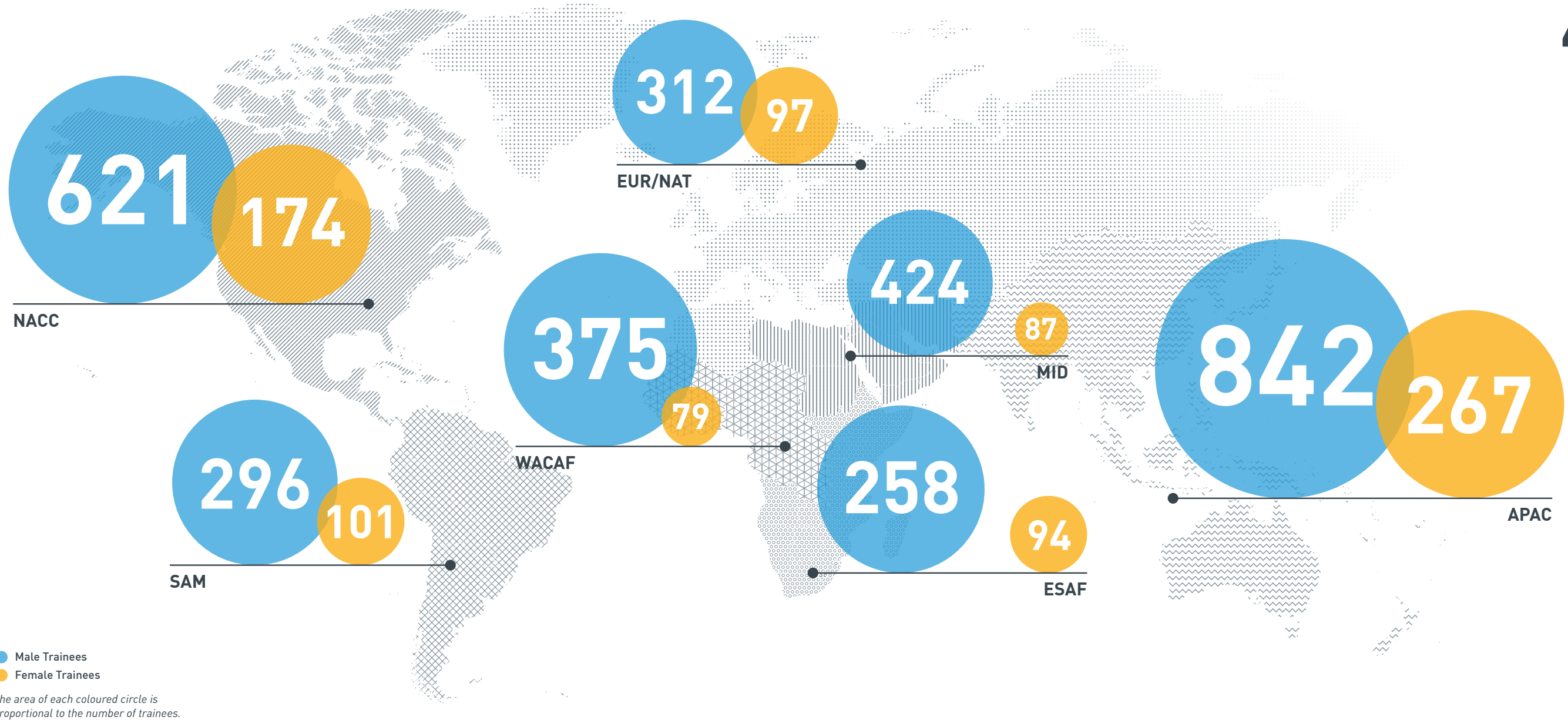
- 1 Training Developers Course (TDC) (EN)
- 2 Training Developers Course (TDC) (SP)
- 3 Training Managers Course (TMC) (EN)
- 4 Training Managers Course (TMC) (SP)
- 5 Validating Competency-based Training (VCT) course (EN)
- 6 Validating Competency-based Training (VCT) course (SP)

# GENDER DISTRIBUTION

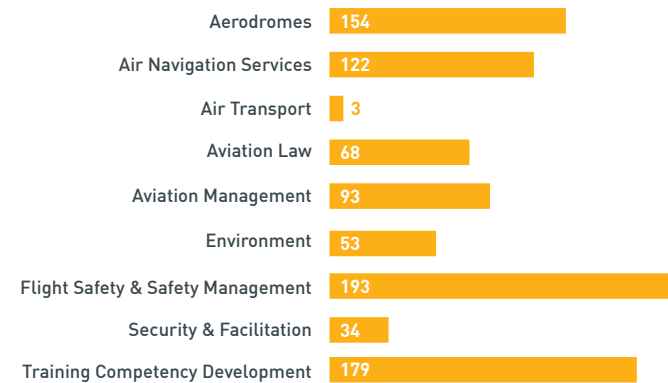


# GENDER DISTRIBUTION IN ICAO TRAINING COURSES AS PER DATA AVAILABLE

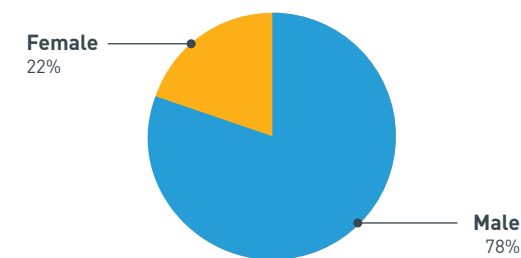
TOTAL NUMBER OF  
CLASSROOM TRAINEES  
**4027**



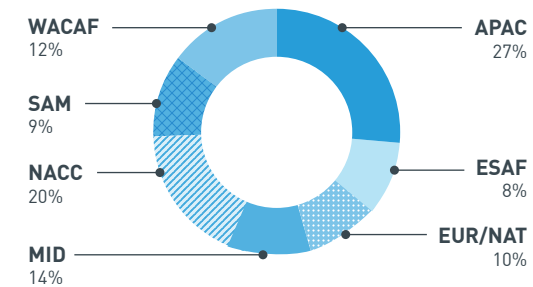
## FEMALE TRAINEES PER THEMATIC AREA



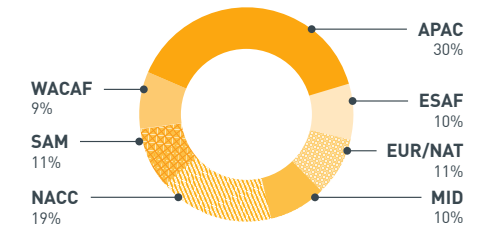
## OVERALL DISTRIBUTION



## MALE TRAINEES



## FEMALE TRAINEES

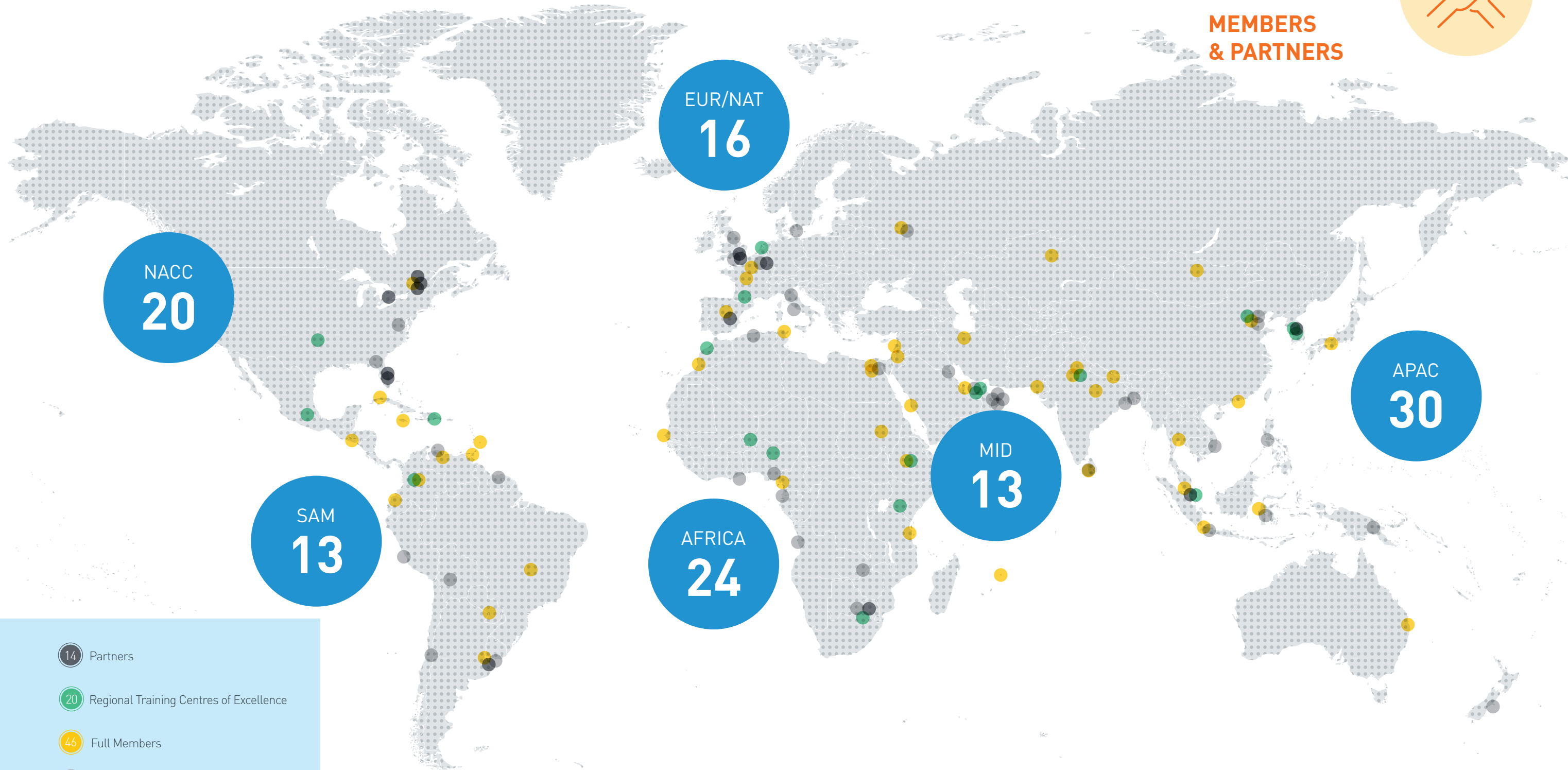


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EUROCONTROL - Institute of Air Navigation Services ●

Federal Aviation Administration (FAA), Flight Standards Workforce Development, United States ●

International Air Transport Association (IATA) ●

International Air Cargo Association (TIACA) ●

### ACADEMIC INSTITUTIONS

Buckinghamshire (Bucks) New University, United Kingdom ●\*

Concordia University - John Molson School of Business, Canada ●

Embry-Riddle Aeronautical University, United States ●

Instituto Del Transporte de la universidad Nacional de San Martin (UNSAM), Argentina ●

Korea Aerospace University, Republic of Korea ●

Nanyang Technological University, Singapore ●

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University of the Witwatersrand, South Africa ●\*

## NORTH AMERICA CENTRAL AMERICA THE CARIBBEAN (13)

### BARBADOS

The Barbados Civil Aviation Training Centre ●

### CANADA

The ASI Institute, A Division of Aviation Strategies International ●

### CUBA

Centro de Adiestramiento de la Aviación (CAA) ●

### CURAZAO

Dutch Caribbean Air Navigation Service Provider ●

### DOMINICAN REPUBLIC

Academia Superior de Ciencias Aeronáuticas (ASCA) ●

### EL SALVADOR

Instituto Centroamericano de Capacitación Aeronáutica (ICCAE) de COCESNA ●

### JAMAICA

Civil Aviation Authority Training Institute (CAATI) ●

### MEXICO

Centro Internacional de Instrucción de Aeropuertos y Servicios Auxiliares. Ingeniero Roberto Kobeh González ●

### PANAMA

Instituto Superior de Formación Profesional Aeronáutica ●

### TRINIDAD AND TOBAGO

Trinidad and Tobago Civil Aviation Authority Civil Aviation Training Centre ●

### UNITED STATES

Advanced ATC, Inc. ●

Delex Systems, Inc. ●

Federal Aviation Administration (FAA) Academy ●

## SOUTH AMERICA (12)

### ARGENTINA

Centro de Instrucción, Perfeccionamiento y Experimentación (CIPE) ●

### BOLIVIA

Instituto Nacional de Aviación Civil (INAC) ●

### BRAZIL

Centro de Treinamento da Agencia Nacional de Aviação Civil (ANAC) ●

### CHILE

Escuela Técnica Aeronáutica ●

### COLOMBIA

Centro de Estudios de Ciencias Aeronáuticas - CEA ●

Corporación Educativa Indoamericana (CEI) ●

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Ecole Nationale de l'Aviation Civile (ENAC) ●

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IDS Ingegneria Dei Sistemi S.p.A. ●

### KAZAKHSTAN

Professional Training Center RSE "Kazaeronavigatsia" ●

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Joint Aviation Authorities Training Organisation (JAA TO) ●

### RUSSIAN FEDERATION

Institute of Air Navigation (IAN) ●

Domodedovo Training LLC ●

### SPAIN

Servicios y Estudios para la Navegación Aérea y la Seguridad Aeronáutica (SENASA) ●

### SWEDEN

Entry Point North AB Nordic ATS Academy ●

### UNITED KINGDOM

International Fire Training Centre ●

NATS Training Services ●

## AFRICA (23)

### ALGERIA

Établissement National de la Navigation Aérienne (CQRENA) ●

### BOTSWANA

IAS Aviation Academy ●

### CAMEROON

Ecole Régionale de Sécurité Incendie (ERSI) ●

L'Ecole de Formation (EFO) of the Cameroon Civil Aviation Authority ●

### EGYPT

Egyptair Training Academy ●

Egyptian Aviation Academy (EAA) ●

United for Aviation Technology Services (United ATS) ●

### ETHIOPIA

Ethiopian Aviation Academy (EAA) ●

Ethiopian Civil Aviation Training Centre (ECATC) ●

### ERITREA

Eritrean School of Aviation ●

### GHANA

Ghana Civil Aviation Training Academy (GATA) ●

### KENYA

East African School of Aviation (EASA) ●

### MAURITIUS

Airports of Mauritius Co Ltd. Aviation Training Centre ●

### MOROCCO

Académie Internationale Mohamed VI de l'Aviation Civile (AIAC) ●

Loumed Cabin Crew Training Center (LCCTC) ●

### NIGER

Ecole Africaine de la Météorologie et de l'Aviation Civile (EAMAC) ●

### NIGERIA

Flying School and Air Traffic Services & Communications School of the Nigerian College of Aviation Technology (NCAT) ●

### SENEGAL

Ecole Régionale de la Navigation Aérienne et Management (ERNAM) ●

### SOUTH AFRICA

Air Traffic and Navigation Services (ATNS) - Aviation Training Academy ●

## SUDAN

Sudan Academy for Aviation Sciences and Technology (SUDAFAST) ●

## TUNISIA

Académie Tuniso-Française de Formation en Sûreté de l'Aviation Civile (AFSAC) ●

## UNITED REPUBLIC OF TANZANIA

Civil Aviation Training Centre (CATC) ●

## ZAMBIA

Zambia Air Services Training Institute (ZASTI) ●

## MIDDLE EAST (13)

### JORDAN

Queen Noor Civil Aviation Technical College (QNCATC) ●

### KUWAIT

Australian College of Kuwait (ACK) ●

### LEBANON

Middle East Airlines Training Center ●

### OMAN

Arabian Development and Training Institute ●

International College of Engineering & Management ●

Oman Aircraft Control College ●

Oman Airports Learning & Development Center ●

### QATAR

Qatar Aeronautical Academy ●

## SAUDI ARABIA

Prince Sultan Aviation Academy ●

Saudi Academy of Civil Aviation (SACA) ●

## UNITED ARAB EMIRATES

GAL ANS Training Centre ●

Gulf Center for Aviation Studies (GCAS) ●

International Aviation Consulting & Training, General Civil Aviation Authority ●

## ASIA/PACIFIC (28)

### AUSTRALIA

ASSET Aviation Institute ●

### BANGLADESH

Civil Aviation Training Centre (CATC) ●

### CHINA

Capital Airports Management Academy ●

Civil Aviation University of China (CAUC) ●

Hong Kong International Aviation Academy (HKIAA) ●

Tianjin Jingwei Horizon Aviation Technology ●

### INDIA

Airports Authority Rescue and Fire Fighting Services Training Centre ●

Civil Aviation Training College Allahabad ●

Fire Service Training Center (FSTC) ●

GMR Aviation Academy ●

Indian Aviation Academy (IAA) ●

### INDONESIA

Center for Human Resources Development on Civil Aviation ●

Politeknik Penerbangan Indonesia ●

Indonesia Civil Pilot Academy of Banyuwangi ●

## JAPAN

Aeronautical Safety College (ASC) ●

## MALAYSIA

Malaysia Aviation Academy (MAVA) ●

## MONGOLIA

Training Centre of the Mongolia Civil Aviation Authority (TCMCAA) ●

## NEPAL

Civil Aviation Academy of Nepal (CAAN) ●

## NEW ZEALAND

Airways New Zealand Training Centre ●

## PAKISTAN

Civil Aviation Training Institute (CATI) ●

## PAPUA NEW GUINEA

National Airports Corporation ●

## PHILIPPINES

Civil Aviation Training Center Civil Aviation Authority ●

## REPUBLIC OF KOREA

Civil Aviation Training Centre of Korea Airports Corporation (KAC) ●

Incheon Airport Aviation Academy (IAAA) ●

## SINGAPORE

Singapore Aviation Academy (SAA) ●

## SRI LANKA

Civil Aviation Training Centre (CATC) ●

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Vietnam Aviation Academy (VAA) ●

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### REGIONAL TRAINING CENTRES OF EXCELLENCE



## GLOSSARY

**TPP Membership:** ICAO recognizes aviation training centres through the TRAINAIR PLUS Programme (TPP) with the aim of improving the safety and efficiency of air transport through the establishment, maintenance and monitoring of high standards for training and competency of aviation personnel on a worldwide basis and in a cost-effective manner.

**Categories of Membership:** TPP is open to all training organizations and operators, provided they are recognized or approved by their respective governments. The network consists of the following four categories of membership:

**Partners:** Universities, regional and international aviation-oriented organizations, public institutions, aviation agencies and industry companies that develop and deliver a TRAINAIR PLUS Partnership Training Package (PTP) to respond to global and regional training needs and support the implementation of ICAO SARPs and aviation global plans.

**Regional Training Centres of Excellence (RTCEs):** TRAINAIR PLUS Full Members that develop ICAO courses, using ICAO provisions (Annexes and guidelines). This membership category offers additional partnership with ICAO for development of ITPs. RTCEs will be assessed by GAT, according to a set of high-level criteria.

**Full Members:** Training centres that wish to improve and consolidate competency-based training within their organizations must develop an STP, including the provision of on-the-job training to their course developers, conducted by an ICAO-qualified validator. Once the STP is validated by ICAO, the applicant will be granted TRAINAIR PLUS Full Member status;

**Associate Members:** To become a Associate Member, new applicants must complete the online application and successfully pass the TRAINAIR PLUS on-site assessment, conducted by an ICAO-qualified assessor, to determine compliance of the applicant with the criteria set forth in the TRAINAIR PLUS Assessment Guidelines (TPAG) and TRAINAIR PLUS Protocol Questionnaire.

## FULL MEMBERS



## ASSOCIATE MEMBERS





| ICAO

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