



| ICAO

GLOBAL AVIATION TRAINING
TRAINAIR PLUS[®]

ICAO TRAINING IN FIGURES *2018*

A Statistical Abstract of
ICAO Training Activities

ICAO TRAINING IN FIGURES *2018*

Divided into 3 thematic sections, the 2018 edition of ICAO Training in Figures presents a detailed statistical overview of all training activities implemented during the year by the Global Aviation Training Office (GAT) of ICAO, its TRAINAIR PLUS Members, and the Air Transport Bureau (ATB) and its network of regional Aviation Security Training Centres (ASTCs). In-depths sections and glossaries allow the aviation community 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, international organisations.

The online version of ICAO Training in Figures 2018 is also accessible at www.icao.int/training, where it can be downloaded in its full version or browsed per individual thematic sections.

01 INTRODUCTION

04 GLOBAL OUTLOOK

- 05 Courses Delivered
 - 06 Online Courses Delivered in 2018
 - 07 Number of Trainees
 - 08 Courses Developed
 - 09 Assessments of Training Centres
-

10 REGIONAL OUTLOOK

- 14 Regional Overview
 - 16 Courses Delivered by ICAO Region
 - 17 Courses Developed by ICAO Region
 - 20 ASTC ICAO Aviation Security Training by ICAO Region
-

22 THEMATIC OUTLOOK

- 23 Courses Delivered by Thematic Area
 - 31 Courses Developed by Thematic Area
-

33 GENDER DISTRIBUTION

- 34 Gender Distribution in ICAO Training Courses
-

36 STATE-SPONSORED TRAINING

- 37 2018 Civil Aviation Authority Senior and Middle Managers Training Course (CAA SMMTC)
-

38 SCHOLARSHIPS

- 39 Scholarships Awarded in 2018
-

40 TPP MEMBERS & PARTNERS

- 41 Members and Partners of the TRAINAIR PLUS™ Programme
-



INTRODUCTION



INTRODUCTION

Globally harmonised Human Resources Development strategies addressing aviation training needs and activities are essential to ensure that Member States and the aviation community have access to a sufficient number of qualified and competent personnel to operate, manage and maintain the current and future air transport system.

The mission of the ICAO Global Aviation Training Office (GAT) is to make sure that aviation personnel is not only trained according to internationally recognized standards and best practices, but at the same time is ready to embrace the development of new skills and knowledge to keep pace with a fast-changing industry.

In order to accomplish such mission, the Office generates partnership agreements to implement ICAO-recognized courses throughout its global network of training centres: the TRAINAIR PLUS Programme (TPP). The Programme is implementing training activities in over 70 ICAO Member States through more than 100 active TPP Members. Partnerships opportunities with tertiary education providers such as Universities, and with International Organisations, also provide an important contribution in the enhancement of the competences and skills of today's and tomorrow's aviation professionals.

Since the Office's inception in 2014, more



The mission of the ICAO Global Aviation Training Office is to make sure that aviation personnel is not only trained according to internationally recognized standards and best practices, but at the same time is ready to embrace the development of new skills and knowledge to keep pace with a fast-changing industry.



than 160 ICAO-recognized training packages have been developed and integrated into the ICAO training portfolio for global delivery. In 2018 alone, over 5000 trainees successfully enrolled in classroom and online courses in the eight training categories listed in this abstract: Aerodromes, Air Navigation Services, Air Transport, Environment, Flight Safety and Management, Security and Facilitation, and Training Competency Development. Such courses were either delivered on ICAO or TPP Members' premises.

In addition to these figures, this year's statistical abstract includes 2018 data on Aviation Security Training Packages (ASTPs), developed and delivered through an established network of regional Aviation Security Training Centres (ASTCs). Such network, led and supported by the Aviation Security Branch (AVSEC) of the ICAO Air Transport Bureau (ATB), provides international, regional and national aviation security training and awareness to all categories of personnel concerned with or responsible for the implementation of aviation security measures, policies and procedures. In the performance of its mandate, the GAT Office maintains a close collaboration with all ICAO Bureaus and Offices whose activities have an impact on training, in order to ensure harmonization in the implementation of the ICAO Civil Aviation Training Policy.

A particular focus has also been given this year

to the gender distribution of trainees in ICAO Regions and per thematic area, in order to provide insights as to what is the current scenario, and stimulate critical thinking on strategies and actions to undertake to further foster gender equality in aviation.

In conclusion, the abstract provides a holistic and detailed outlook on global and regional training undertaken in 2018 by ICAO, including some historical data of recent years. It offers an overview of the number of training centres assessed, the courses developed, and those delivered in all ICAO Regions. Each of them has its own economic, social and cultural factors that impact access to training. The careful consideration of those factors in the constant evolution of ICAO training strategy is key in providing better and increased access to training and education in civil aviation, and ultimately to successful capacity-building.

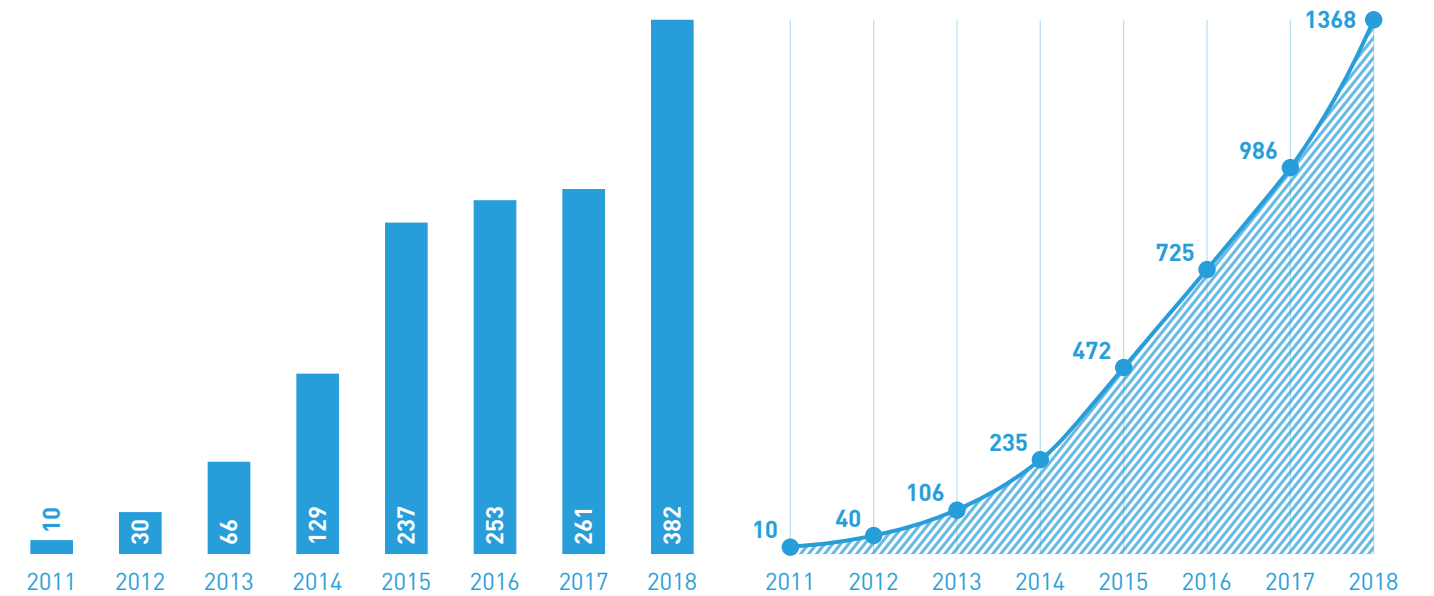
I hope you will find the reading interesting and stimulating.

Mr. Meshesha Belayneh
Chief of GAT

GLOBAL OUTLOOK



COURSES DELIVERED



YEARLY

CUMMULATIVE

GLOSSARY

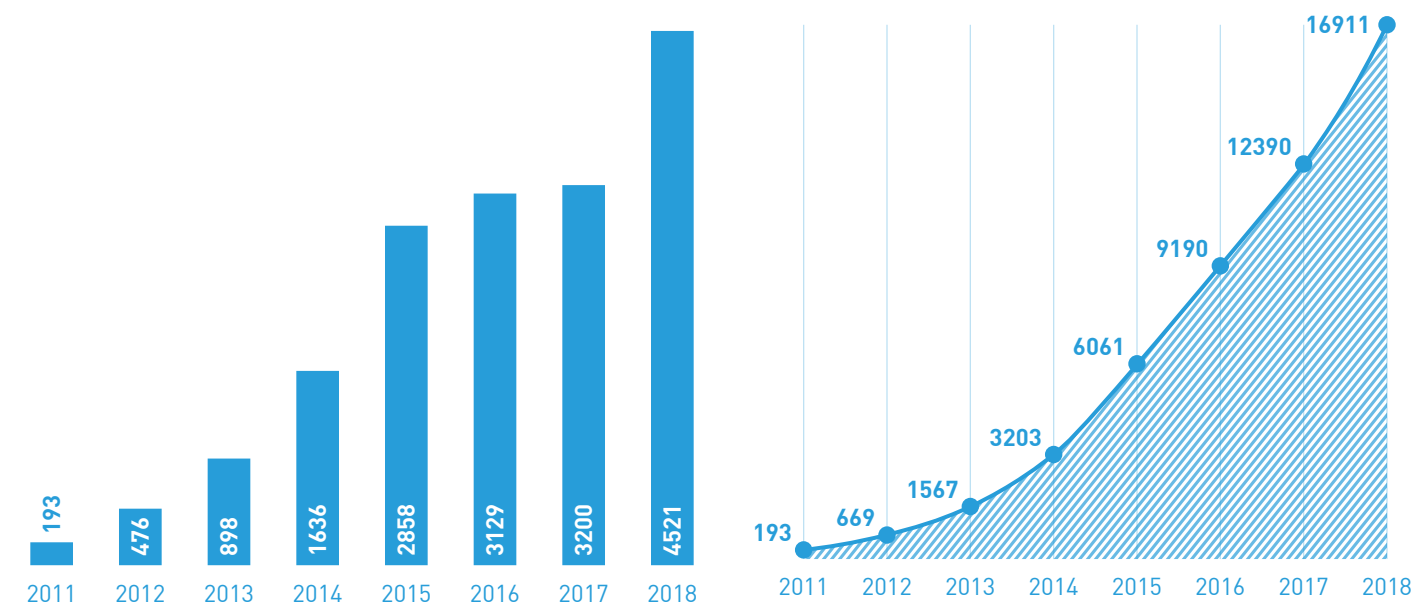
ICAO Training: ICAO Training is the acquisition of knowledge and skills provided by ICAO and/or training organizations associated with ICAO issuing a certificate of completion or a certificate of achievement with the ICAO emblem or an ICAO programme emblem.

ONLINE COURSES DELIVERED IN 2018

ONLINE COURSES DELIVERED IN 2018

Training package	Trainees
Performance Based Navigation (PBN) Overview Version 3.0	45
PBN Operations Approval Version 3.0	13
PBN Airspace Workshop Version 3.0	13
PBN – Air Traffic Control Officer (ATCO)	45
Performance-based Navigation for Pilots	33
Technical Instructors Course (TIC 1)	428
Management Professional Accreditation Programme (AMPAP)	119
Air Transport Forecasting Course	49
Air Transport Statistics Course	28
Air Transport Economics and Regulations Course	80
Fundamentals of the Air Transport System	1280
Universal Safety Oversight Audit Programme (USOAP)	132
Safety Management Training Programme (SMTP)	251
Aviation Data-Driven Decision-Making (AD3M) Online Course	37
Total	2553

NUMBER OF TRAINEES



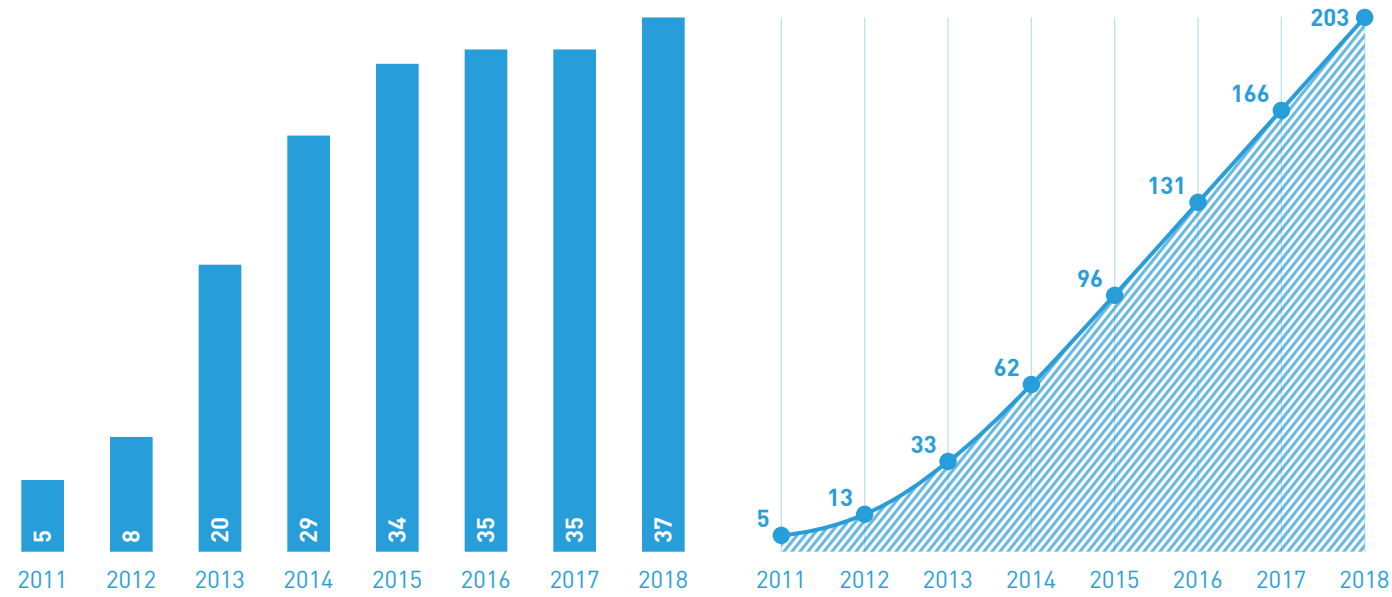
YEARLY

CUMMULATIVE

GLOSSARY

ICAO Training catalogue: the ICAO training catalogue consists of courses covering the following seven areas: aerodromes, air navigation services, air transport, environment, flight safety and safety management, security and facilitation, and competency development (this last category addresses the instructional team of training centres, such as instructors, developers, managers, validators and evaluators).

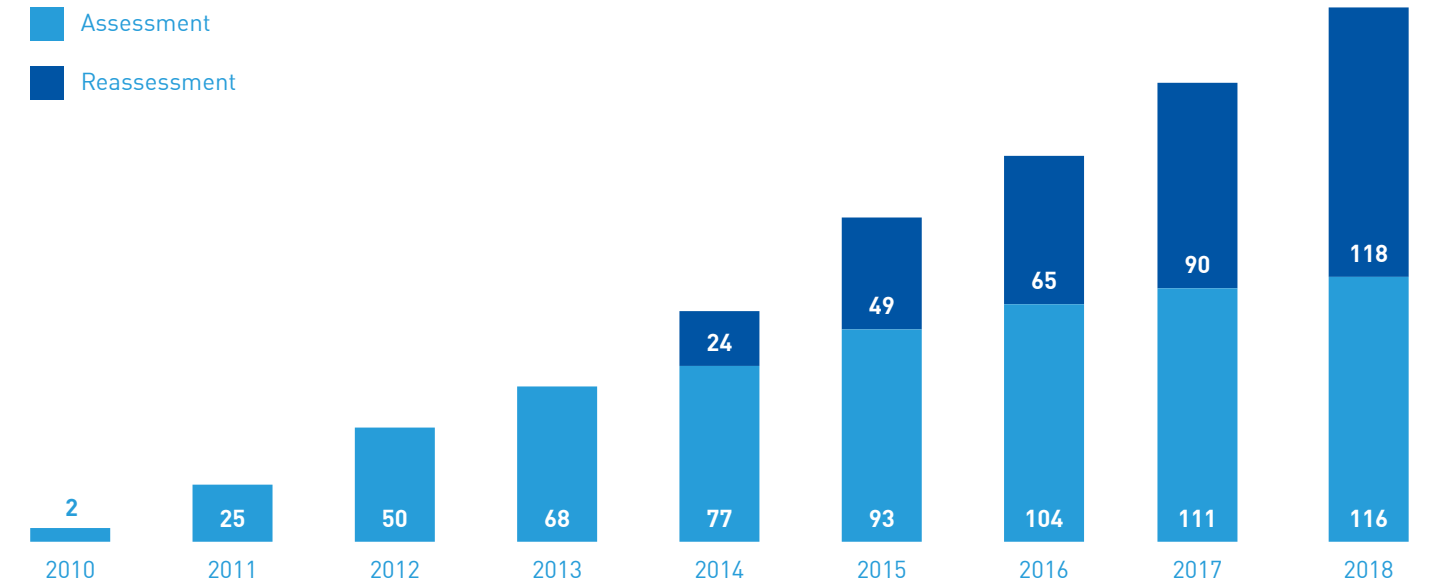
COURSES DEVELOPED



YEARLY

CUMMULATIVE

ASSESSMENTS OF TRAINING CENTRES



ASSESSMENT / REASSESSMENT

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.

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.



REGIONAL OUTLOOK

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.

ASIA AND PACIFIC (APAC) OFFICE

Contracting 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.

EASTERN AND SOUTHERN AFRICAN (ESAF) OFFICE

Contracting 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.

EUROPEAN AND NORTH ATLANTIC (EUR/NAT) OFFICE

Contracting 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, The former Yugoslav Republic of Macedonia, Malta, Monaco, Montenegro, Morocco, Netherlands, Norway, Poland, Portugal, Republic of Moldova, Romania, Russian Federation, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tajikistan, Tunisia, Turkey, Turkmenistan, Ukraine, United Kingdom, Uzbekistan.

NORTH AMERICAN, CENTRAL AMERICAN AND CARIBBEAN (NACC) OFFICE

Contracting 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.

SOUTH AMERICAN (SAM) OFFICE

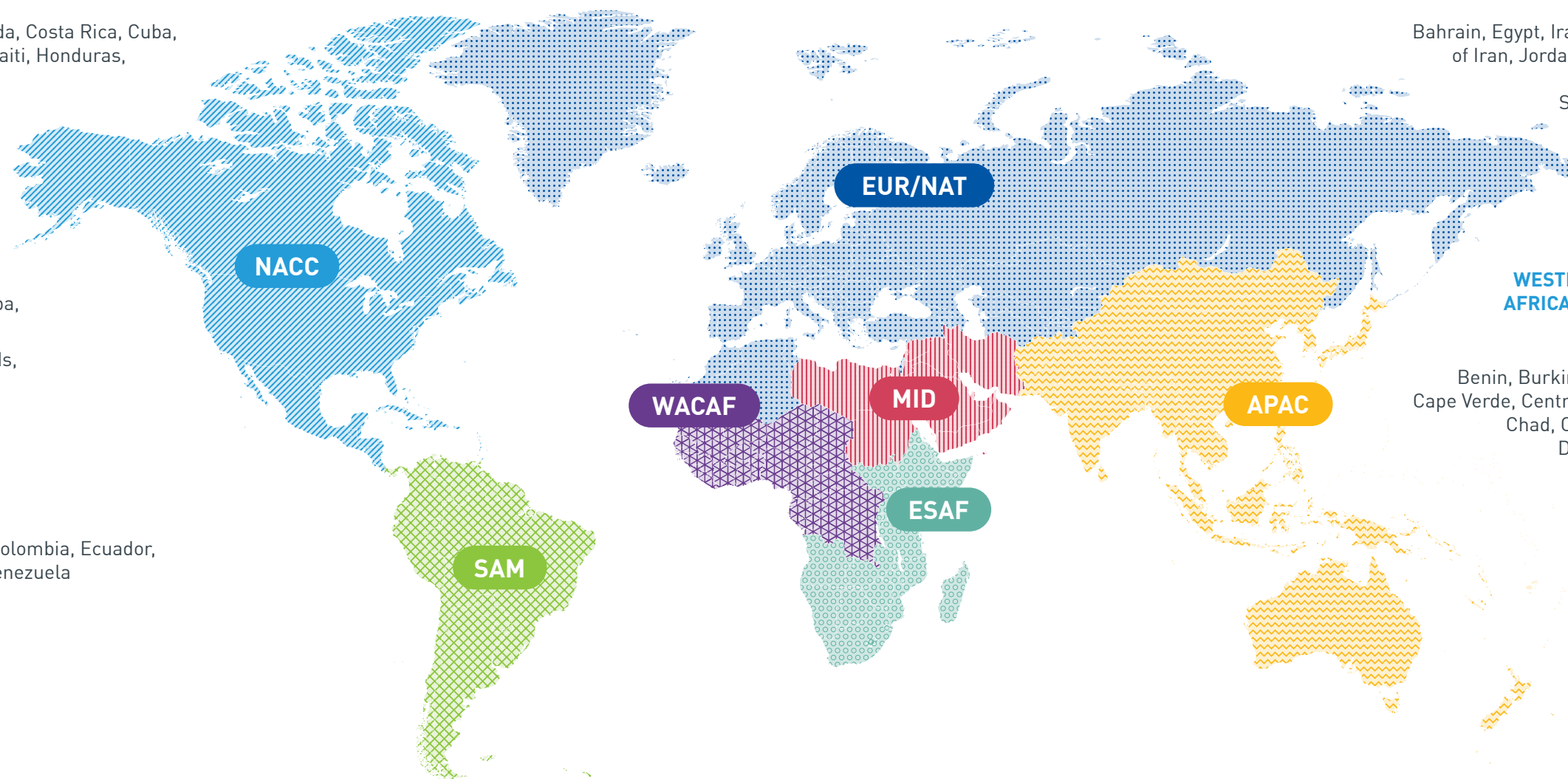
Contracting States:

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

Liason carried out with:

France: French Guiana

United Kingdom: Falkland Islands (Malvinas).



MIDDLE EAST (MID) OFFICE

Contracting States:

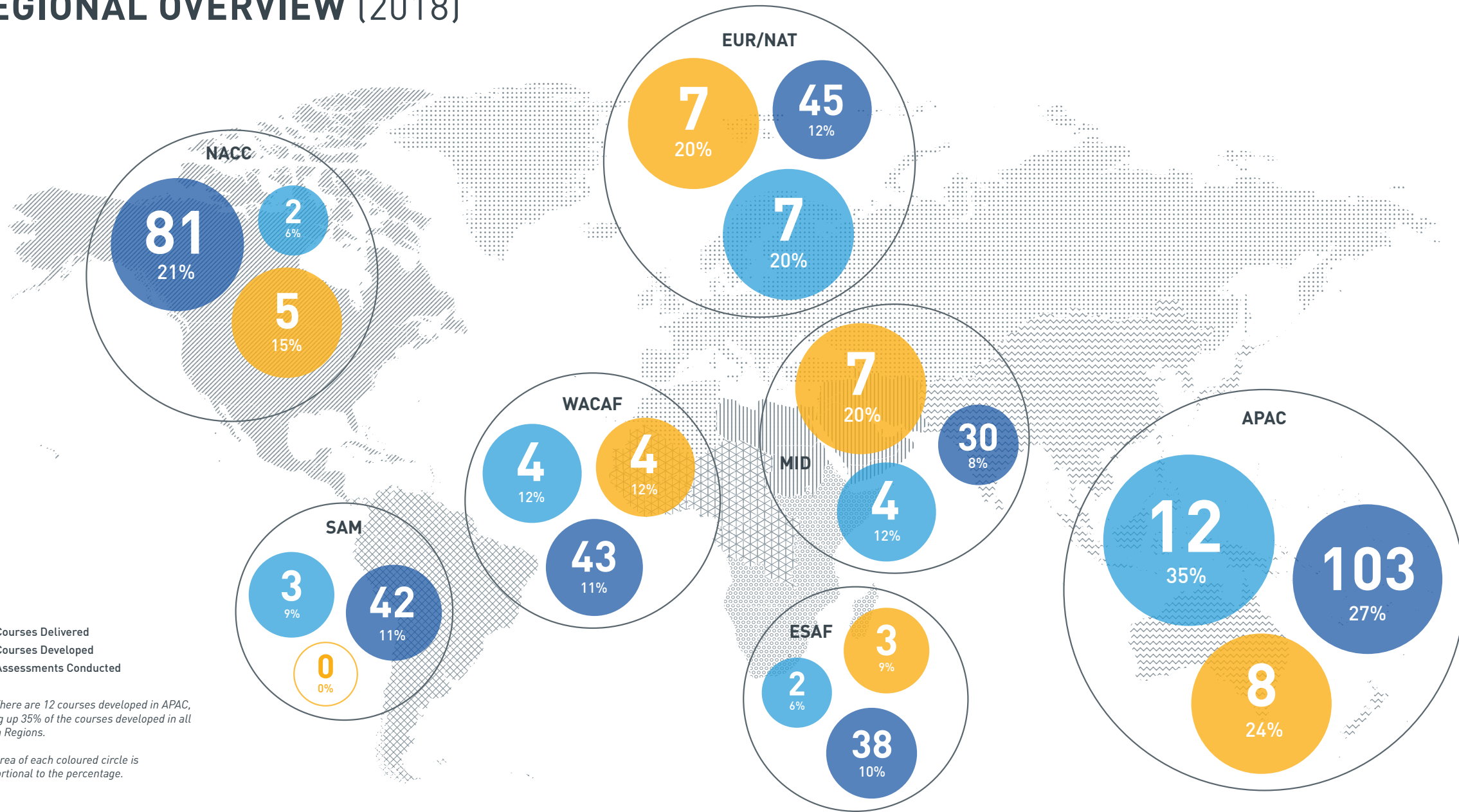
Bahrain, Egypt, Iraq, Islamic Republic of Iran, Jordan, Kuwait, Lebanon, Libya, Oman, Qatar, Saudi Arabia, Sudan, Syrian Arab Republic, United Arab Emirates, Yemen

WESTERN AND CENTRAL AFRICAN (WACAF) OFFICE

Contracting 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.

REGIONAL OVERVIEW (2018)

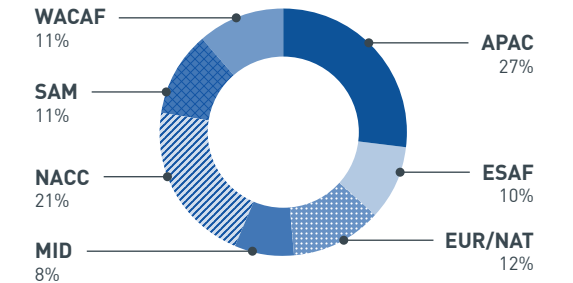


- Courses Delivered
- Courses Developed
- Assessments Conducted

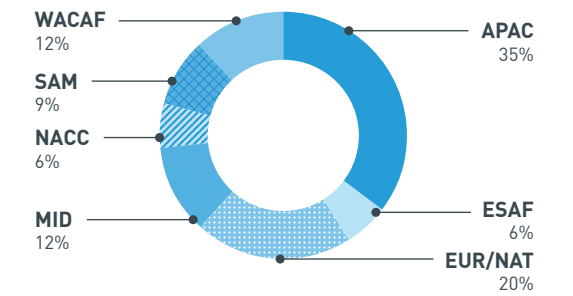
e.g. There are 12 courses developed in APAC, taking up 35% of the courses developed in all seven Regions.

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

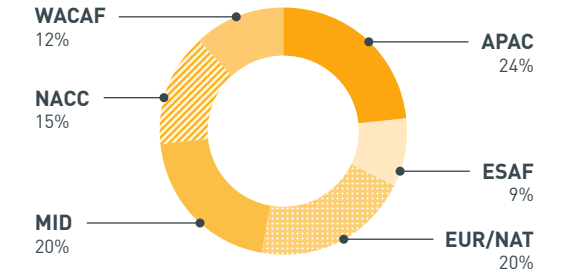
DELIVERY



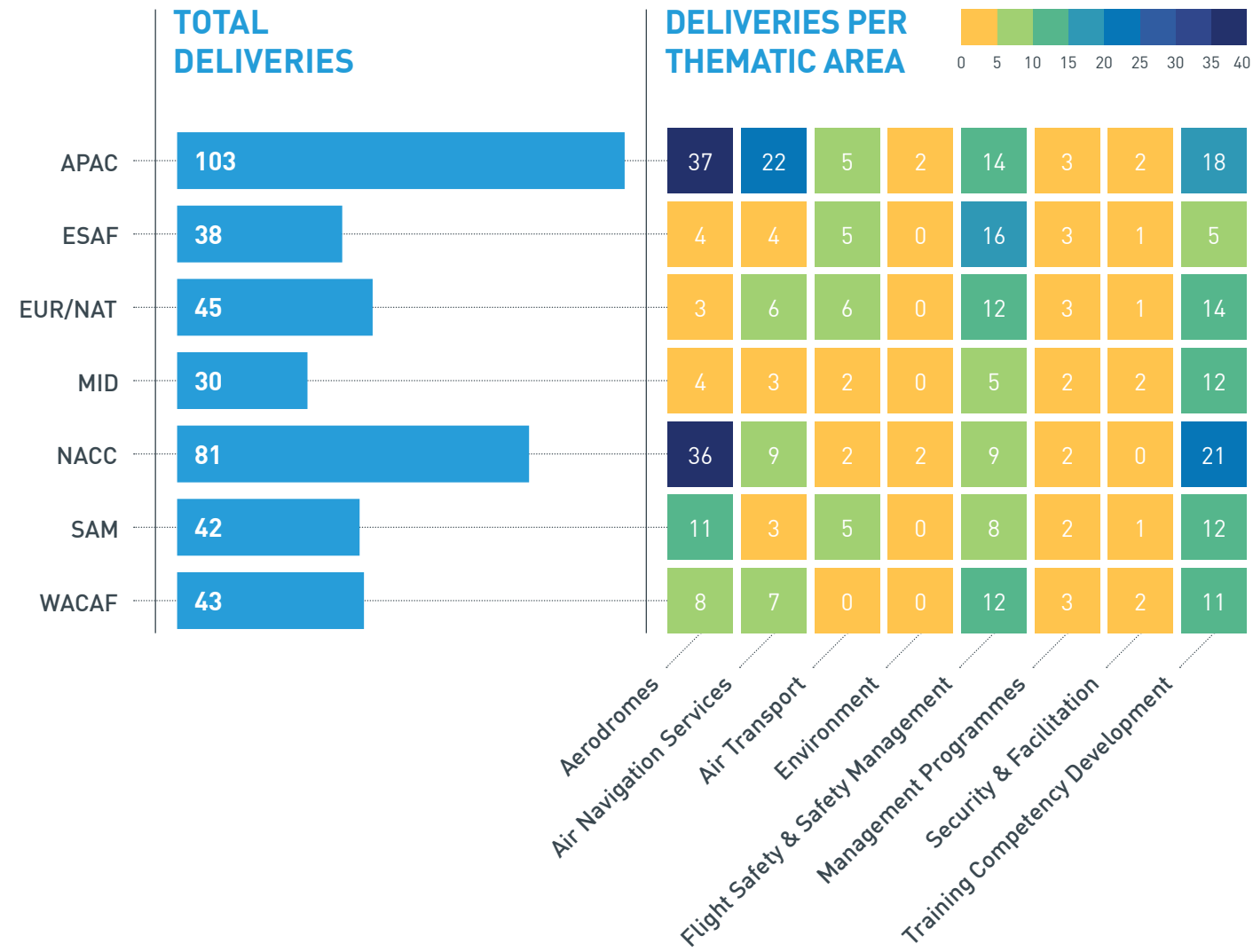
DEVELOPMENT



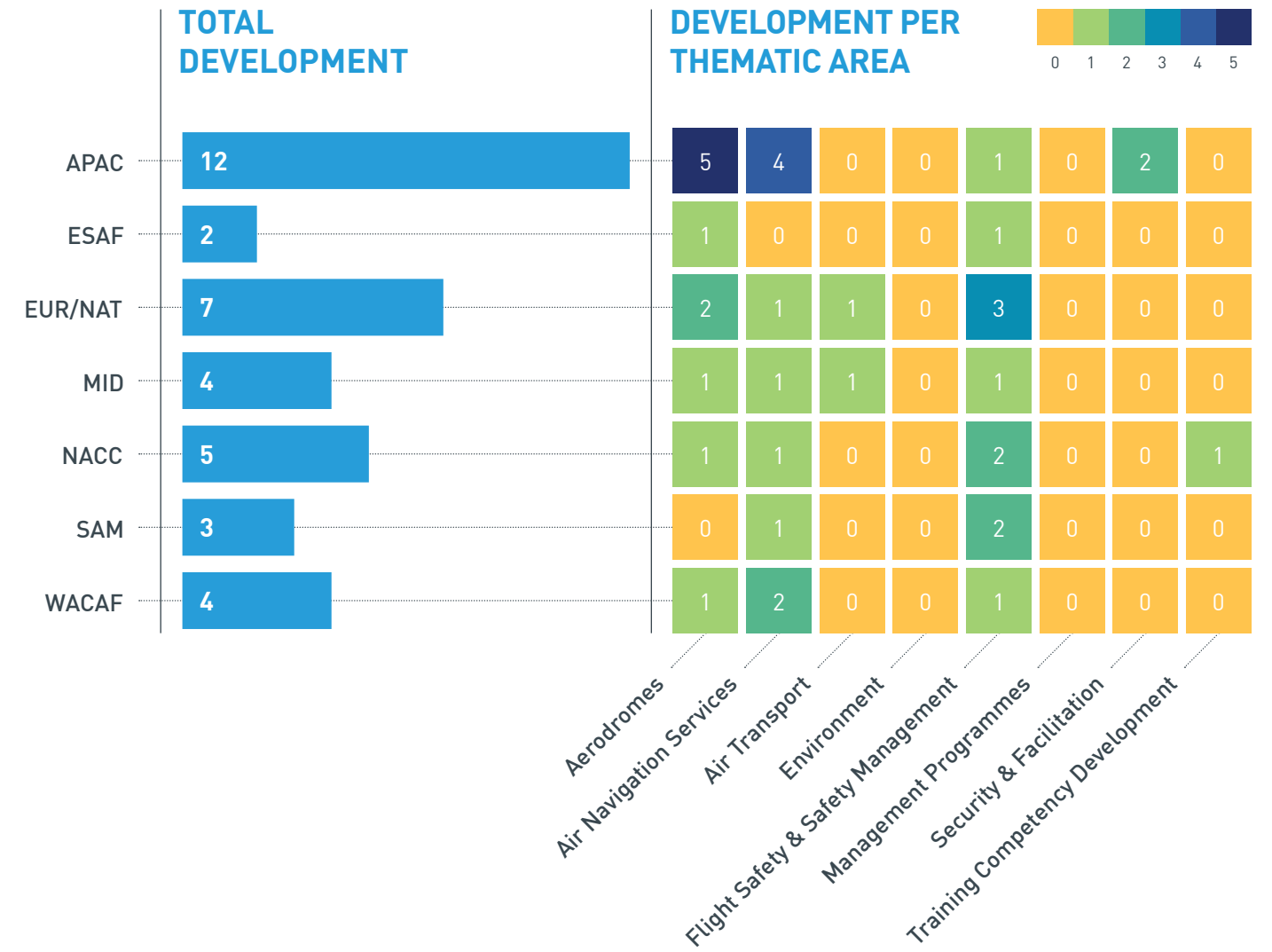
ASSESSMENT



COURSES DELIVERED BY ICAO REGION (2018)



COURSES DEVELOPED BY ICAO REGION (2018)



COURSES DEVELOPED BY ICAO REGION (2018)

ICAO Region	No.	Course Title	Area
APAC	1	Passenger way-finding signage	Aerodromes
	2	Automatic Fire Detection System (AFDS) Equipment Maintenance Course	Aerodromes
	3	Smart Airport- Establishing Airport IT Strategic Planning Platform	Aerodromes
	4	Aircraft De-icing and Anti-icing Operators Course	Aerodromes
	5	Breathing Apparatus Command and Control Operations	Aerodromes
	6	On-the-job Training Instructor for Air Traffic Control (OJTI for ATC)	Air Navigation Services
	7	Search Area Calculation for SAR Operation	Air Navigation Services
	8	ADS-B System Equipment Maintenance	Air Navigation Services
	9	Approach Control Procedural Basic	Air Navigation Services
	10	HAZMAT First Responder (Operations Level)	Flight Safety and Safety Management
	11	Screening Passengers with Disabilities or Reduced Mobility(PDRM)	Security and Facilitation
	12	Conducting Risk-based Security Assessment	Security and Facilitation
ESAF	1	On Scene Command during Airport Aircraft Accident	Aerodromes
	2	Aircraft Systems Troubleshooting	Flight Safety and Safety Management
EUR/NAT	1	ATC Simulator/OJT Instructor course	Air Navigation Services
	2	Essential Elements of Criminal Air Law for Aviation Professionals	Air Transport
	3	Safety Management for Approved Maintenance Organizations under ICAO/EASA Rules	Flight Safety and Safety Management
	4	Ground Handling for Narrow and Wide Body Aircrafts	Flight Safety and Safety Management

EUR/NAT	5	Interventions efficaces en cas d'incidents ou déversement de carburant (Effective interventions to incidents or fuel spill)	Aerodromes
	6	Weight and Balance Application to B737NG and Airbus 321	Flight Safety and Safety Management
	7	Maîtrise des processus de certification des aéroports, phase 1 - Revue documentaire (Control of aerodrome certification processes, phase 1 - Document review)	Aerodromes
MID	1	Basic Airside Operations	Aerodromes
	2	Aerodrome Control Initial Training	Air Navigation Services
	3	Aircraft Loading for Load Masters	Air Transport
	4	Flight Simulator Training Device (FSTD) compliance monitoring specialist	Flight Safety and Safety Management
NACC	1	Entrenamiento Recurrente en condiciones de fuego vivo y a presión a bomberos aeronáuticos. (Recurrent training for aeronautics firefighters with Live and under pressure fire situations)	Aerodromes
	2	Aeronautical Information Officer Initial Training	Air Navigation Services
	3	Aviation Data-Driven Decision Making	Flight Safety and Safety Management
	4	Managing Aviation Training Intelligence (MATI)	Training Competency Development
	5	Managing Compliance with ICAO SARPs	Flight Safety and Safety Management
SAM	1	Investigación de Incidentes ATS, una herramienta para el SMS. (Incident Investigation ATS, a tool for SMS)	Air Navigation Services
	2	Técnico de mantenimiento en sistema de interconexión de cableado eléctrico de aeronaves (Maintenance technician system interconnection wiring of aircraft)	Flight Safety and Safety Management
	3	Gerencia de la confiabilidad aeronáutica (Management of aeronautical reliability)	Flight Safety and Safety Management
WACAF	1	On Scene Command during Airport Aircraft Accident	Aerodromes
	2	ATSEP - Communication Equipment Maintenance	Air Navigation Services
	3	ATSEP - Surveillance Equipment Maintenance	Air Navigation Services
	4	Aircraft Systems Troubleshooting	Flight Safety and Safety Management

ASTC ICAO AVIATION SECURITY TRAINING BY ICAO REGION (2018)

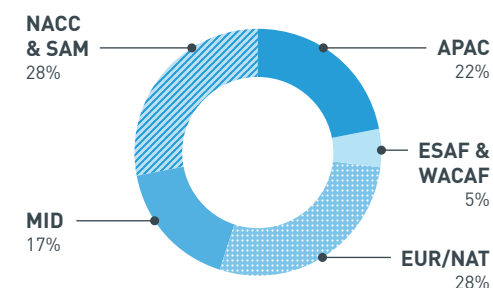
APAC	ASTP Courses	Course Language	Participants	
			Male	Female
ASTC-Kuala Lumpur	National Inspectors	EN	10	6
ASTC-Singapore	Air Cargo and Mail Security	EN	10	5
ASTC-Auckland	National Inspectors	EN	11	5
ASTC-Kunming	National Inspectors	ZH	9	6
Total	4		40	22

ESAF and WACAF	ASTP Courses	Course Language	Participants	
			Male	Female
RO-Nairobi	National Inspectors	EN	17	2
Total	1		17	2

EUR/NAT	ASTP Courses	Course Language	Participants	
			Male	Female
ASTC-Almaty	National Inspectors	RU	14	3
ASTC-Tunis	National Instructors	FR	7	1
ASTC-Minsk	National Instructors	RU	7	9
ASTC-Moscow	Air Cargo and Mail Security	RU	11	0
ASTC-Casablanca	National Inspectors	FR	11	0
Total	5		50	13

MID	ASTP Courses	Course Language	Participants	
			Male	Female
ASTC-Dubai	National Inspectors	AR	19	1
ASTC-Jeddah	Airport Security Supervisors	AR	20	0
ASTC-Manama	National Inspectors	EN	8	6
Total	3		47	7

NACC and SAM	ASTP Courses	Course Language	Participants	
			Male	Female
ASTC-Port of Spain	Airport Security Supervisors	EN	12	8
ASTC-Santo Domingo	National Instructors	SP	20	0
ASTC-Buenos Aires	National Instructors	SP	11	13
ASTC-Quito	National Inspectors	SP	15	5
ASTC-Quito	National Instructors	SP	10	7
Total	5		68	33



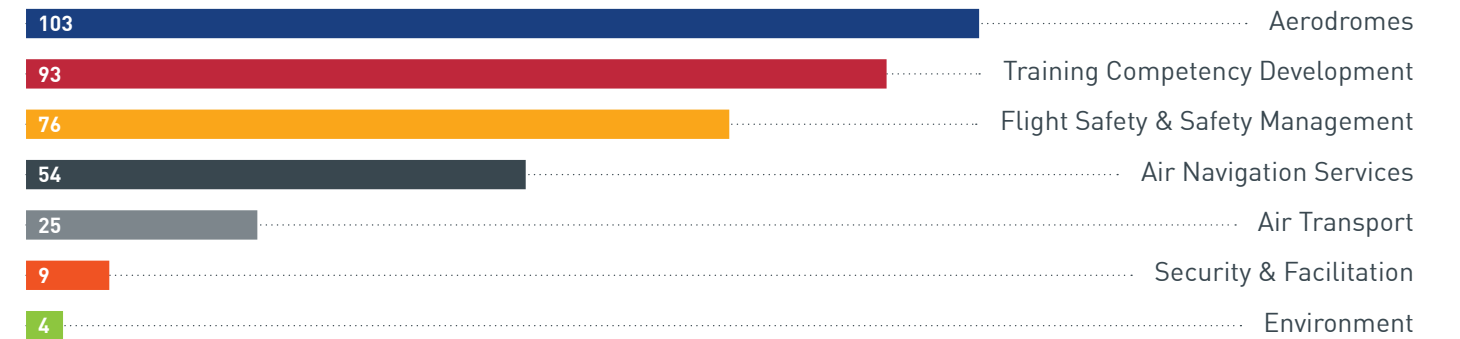
PERCENTAGE OF IMPLEMENTATION OF ASTP COURSES PER ICAO REGION

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.

THEMATIC OUTLOOK

COURSES DELIVERED BY THEMATIC AREA (2018)



Aerodromes

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
1	Aerodrome emergency handling course	10								10
2	Aerodrome Inspection	61					17			78
3	Aerodrome Safety Management Incorporating PANS-Aerodromes	27								27
4	Aircraft Fire Fighting and Rescue Operation	28								28
5	Aircraft Ground De-icing and Anti-icing Operations Course	49								49
6	Airport BHS Operation and Maintenance Supervisor	45								45
7	Airport Customer Service Quality Management	46								46
8	Airport Passenger Boarding Bridge (PBB) Operations	14	15							29
9	Atención al Usuario Aeroportuario				59					59
10	Basic Airside Operations		13							13

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
11	Breathing Apparatus Command and Control Operations	10								10
12	Coordinación de las operaciones aeroportuarias			29						29
13	Coordinación y supervisión del proceso de manejo de combustibles de aviación			10						10
14	Curso de operador de vehículos ARFF				9					9
15	Disabled Aircraft Recovery Procedures	14								14
16	Emergency Tabletop Exercises Management	21		11						32
17	Entrenamiento Recurrente en condiciones de fuego vivo y a presión a bomberos aeronáuticos			204						204
18	Establishment of an Aerodrome Manual	24								24
19	Foam Tender Operation and Defensive Driving	20								20
20	ICAO-ACI Aerodrome Certification Course	72		57			38			167
21	ICAO-ACI Course in Airport User Charges			28						28
22	ICAO-ACI Management of Airport Security		25			10				35
23	Locating a Ground Fault in an Airfield Lighting Series Circuit	8								8
24	Lutte contre les feux mineurs d'avion								101	101
25	Manejo de Combustibles de Aviación			108	19					127
26	Operaciones y Servicios Aeroportuarios y Complementarios en la Certificación de Aeródromos			26						26
27	Passenger way-finding signage	13								13
28	Runway Rubber Removal	19								19
29	Supervisión de los Servicios en Plataforma y Área de Movimiento a Tráfico Civil				29					29
30	Wildlife & Habitat Management at Aerodromes - Control & Reduction (Part One)					17				17
Total		481	53	473	116	27	55	101		1306

Air Transport

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
1	Air Cargo Acceptance & Handling					9				9
2	Aviation English for Aircraft Maintenance Technicians									0
3	Gestion efficace du Processus Lettres OACI aux États					14				14
4	Inspección de Pintura y Recubrimiento Aeronáutico				11					11
5	International Air Law Course	48	13	24	18	24	19			146
6	Pintura Aeronáutica - PAINTAIR				6					6
7	Ramp Safety Awareness	20								20
8	Unstable Approaches in Air Traffic Control	10								10
Total		78	13	24	35	47	19	0		216

Air Navigation Services

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
1	Aerodrome CNS Engineering Course	65								65
2	Aeronautical Information Management (AIM) Specialist	5								5
3	Aeronautical Internet Protocol Network (AIPN) Maintenance	36								36
4	Aeronautical Search and Rescue Operations	25								25
5	Air Navigation Services AIS Inspector						11			11
6	Air Navigation Services ATM Inspector						8			8
7	Air Navigation Services CNS Inspector	10					8			18
8	Air Navigation Services MET Inspector						5			5
9	Air Traffic Controller Competence Assessor Course					11				11

TRAINING PACKAGE	NUMBER OF TRAINEES								TOTAL
		APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	
10	Air Traffic Services Supervisor	6							6
11	Approach Control Procedural Basic	80							80
12	ATC Facility Chief	5							5
13	ATC Simulator/OJT instructor course				12				12
14	ATSEP - Airport Power Systems and Facilities Maintenance						11		11
15	ATSEP Navigation Aids Equipment Maintenance								0
16	ATSEP Pre-On-the-Job Training Course								0
17	Facteurs Humains / opérateurs de première ligne ATM				39				39
18	Gestion Automatizada de Planes de Vuelo		45						45
19	Handling Emergencies and Unexpected Events in Terminal and En-Route Airspace	6							6
20	Inicial ATC Aeródromo		8						8
21	Investigación de Incidentes ATS, una herramienta para el SMS.				15				15
22	Mantenimiento Sistema Terrestre VOR Selex 1150				8				8
23	Mantenimiento Sistema VHF Alcance Extendido				9				9
24	Performing ADS-B System Equipment Maintenance	8							8
25	Prevention of Miscommunication in ATC Radio Telephony	10							10
26	Search Area Calculation for SAR Operation	16							16
27	Spécialiste en Maintenance des Stations VSAT Aeronautiques						17		17
28	VHF (OTE) Tx/Rx Maintenance Course	7							7
Total		268	11	53	32	62	32	28	486

Environment

TRAINING PACKAGE	NUMBER OF TRAINEES								TOTAL
		APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	
1	Airport Green House Gas (GHG) Management	9							9
2	Mitigación del riesgo por fauna en aeropuertos			23					23
Total		9	0	23	0	0	0	0	32

Flight Safety & Safety Management

TRAINING PACKAGE	NUMBER OF TRAINEES								TOTAL
		APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	
1	Aviation Data-driven Decision Making			11					11
2	Dangerous Goods for Inspectors			12					12
3	Dangerous Goods Part 1 – Using the Technical Instructions for the Safe Transport of Dangerous Goods by Air	20		11					31
4	ECCAIRS - European Co-ordination Centre for Accident and Incident Reporting Systems (ECCAIRS) End User Course						18		18
5	Gerencia de la confiabilidad aeronáutica				11				11
6	Gerencia en mantenimiento aeronáutico			40	8				48
7	Gestión de Riesgo en la Aviación Civil				8				8
8	Ground Handling for Narrow and Wide Body Aircrafts					6			6
9	HAZMAT First Responder (Operations Level)	11							11
10	IAASM-SAA Postgraduate Certificate in Aviation Medicine for Medical Examiners and Assessors	16							16
11	ICAO Government Safety Inspector Airworthiness – Air Operator and Approved Maintenance Organization Certification (GSI-AIR-18701)	10	13				40	39	102

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
12	ICAO Government Safety Inspector Operations – Air Operator Certification Course (GSI-OPS-18700)	3				6	67	45		121
13	ICAO Government Safety Inspector Personnel Licensing Course (GSI-PEL-18710)	13		11		10	36	37		107
14	Investigación de Accidentes e Incidentes de Aviación Civil				14					14
15	Operational Hazard Identification and Risk Mitigation	37								37
16	Operational Hazard Identification and Risk Mitigation									0
17	Personal Weight Management Skill Set for Aviation Professionals									
18	Personnel Licensing (PEL) System Part 1 (E-Learning)	22								22
19	Personnel Licensing System Course									
20	Personnel Licensing System Course (Part 2)			5						5
21	Procedimientos avanzados en la investigación de campo de accidentes aéreos				18					18
22	Radio Telephony Communication for Airside Safety Operators		16							16
23	Safety Management for Practitioners (SMxP)		17	18		31	60	12		138
24	Safety Occurrence Reporting and Analysis –SORaA–			20		23				43
25	State Aviation Inspector on Training Organizations					3				3
26	Técnico de mantenimiento en sistema de interconexión de cableado eléctrico de aeronaves				15					15
27	Weight and Balance Application to B737NG and Airbus 321					14				14
Total		132	46	128	74	93	203	151		827

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				25					25
2	Control of the Authenticity and Validity of Travel Documents at Airport Borders - Level 1	17								17
3	Contrôle aux frontières aéroportuaires de l'authenticité et de la validité des documents de voyage - Niveau 1							17		17
4	Cross Cultural Awareness skills for Immigration officers		20							20
5	ICAO-ACI Management of Airport Security						14	25		39
6	Travel Documents				2					2
7	مراقبة صحة وثائق السفر وصلاحياتها عند الحدود في المطارات		21							21
Total		17	41	0	25	2	14	42		141

Training Competency Development

TRAINING PACKAGE		NUMBER OF TRAINEES	APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	TOTAL
1	Aviation Data-driven Decision Making	15								15
2	Cours de Formation Instructeurs					18		29		47
3	Curso de Formación de Instructores (CFI)			38	56					94
4	Curso de Gerentes de Centros de Instrucción (CGCI)				8					8
5	Curso de preparadores de instrucción			15	24					39

TRAINING PACKAGE	NUMBER OF TRAINEES	REGIONAL DISTRIBUTION							TOTAL
		APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	
6	Curso Especialista en Evaluacion Post-Instruccion			15					15
7	Formation de concepteur de cours							28	28
8	Management Certificate in Civil Aviation			37					37
9	Managing Aviation Training Intelligence (MATI)			9	6				15
10	On-the-Job Training Instructor	12	16	58	19				105
11	Post-Training Evaluation (PTE) Course	14							14
12	Safety Management for Practitioners (SMxP)		13						13
13	Training Developers Course (TDC)	55	17	29		28	21		150
14	Training Instructors Course (TIC) Part 2	109	46	68	13	16	26	74	352
15	Training Managers Course (TMC)					22			22
16	Validación de la instrucción basada en competencias				3				3
17	Validating Competency-based Training (VCT)		9			6			15
Total		205	101	269	123	96	47	131	972

State-sponsored Training

TRAINING PACKAGE	NUMBER OF TRAINEES	REGIONAL DISTRIBUTION							TOTAL
		APAC	MID	NACC	SAM	EUR/NAT	ESAF	WACAF	
1	Civil Aviation Authority Senior and Middle Managers Training Course (CAA SMMTC)	153	54	48	52	76	74	84	541

COURSES DEVELOPED BY THEMATIC AREA (2018)

Aerodromes

1, 2	On Scene Command during Airport Aircraft Accident
3	Maîtrise des processus de certification des aéroports, phase 1 - Revue documentaire (Control of aerodrome certification processes, phase 1 - Document review)
4	Basic Airside Operations
5	Passenger way-finding signage
6	Automatic Fire Detection System (AFDS) Equipment Maintenance Course
7	Smart Airport- Establishing Airport IT Strategic Planning Platform
8	Aircraft De-icing and Anti-icing Operators Course
9	Breathing Apparatus Command and Control Operations
10	Entrenamiento Recurrente en condiciones de fuego vivo y a presión a bomberos aeronáuticos .(Recurrent training for aeronautics firefighters with Live and under pressure fire situations)
11	Interventions efficaces en cas d'incidents ou déversement de carburant (Effective interventions to incidents or fuel spill)

Air Navigation Services

1	Aerodrome Control Initial Training
2	ATSEP - Communication Equipment Maintenance
3	ATSEP - Surveillance Equipment Maintenance
4	Aeronautical Information Officer Initial Training
5	ATC Simulator/OJT Instructor course
6	Investigación de Incidentes ATS, una herramienta para el SMS. (Incident Investigation ATS, a tool for SMS)
7	On-the-job Training Instructor for Air Traffic Control (OJTI for ATC)

8 Search Area Calculation for SAR Operation

9 ADS-B System Equipment Maintenance

10 Approach Control Procedural Basic

Air Transport

1 Aircraft Loading for Load Masters

2 Essential Elements of Criminal Air Law for Aviation Professionals

Flight Safety and Safety Management

1 Safety Management for Approved Maintenance Organizations under ICAO/EASA Rules

2 Flight Simulator Training Device (FSTD) compliance monitoring specialist

3 Aircraft Systems Troubleshooting

4 Aircraft Systems Troubleshooting

5 Técnico de mantenimiento en sistema de interconexión de cableado eléctrico de aeronaves (Maintenance technician system interconnection wiring of aircraft)

6 Gerencia de la confiabilidad aeronáutica (Management of aeronautical reliability)

7 Ground Handling for Narrow and Wide Body Aircrafts

8 Weight and Balance Application to B737NG and Airbus 321

9 HAZMAT First Responder (Operations Level)

10 Aviation Data-Driven Decision Making (EN)

11 Managing Compliance with ICAO SARPs

Security and Facilitation

1 Screening Passengers with Disabilities or Reduced Mobility(PDRM)

2 Conducting Risk-based Security Assessment

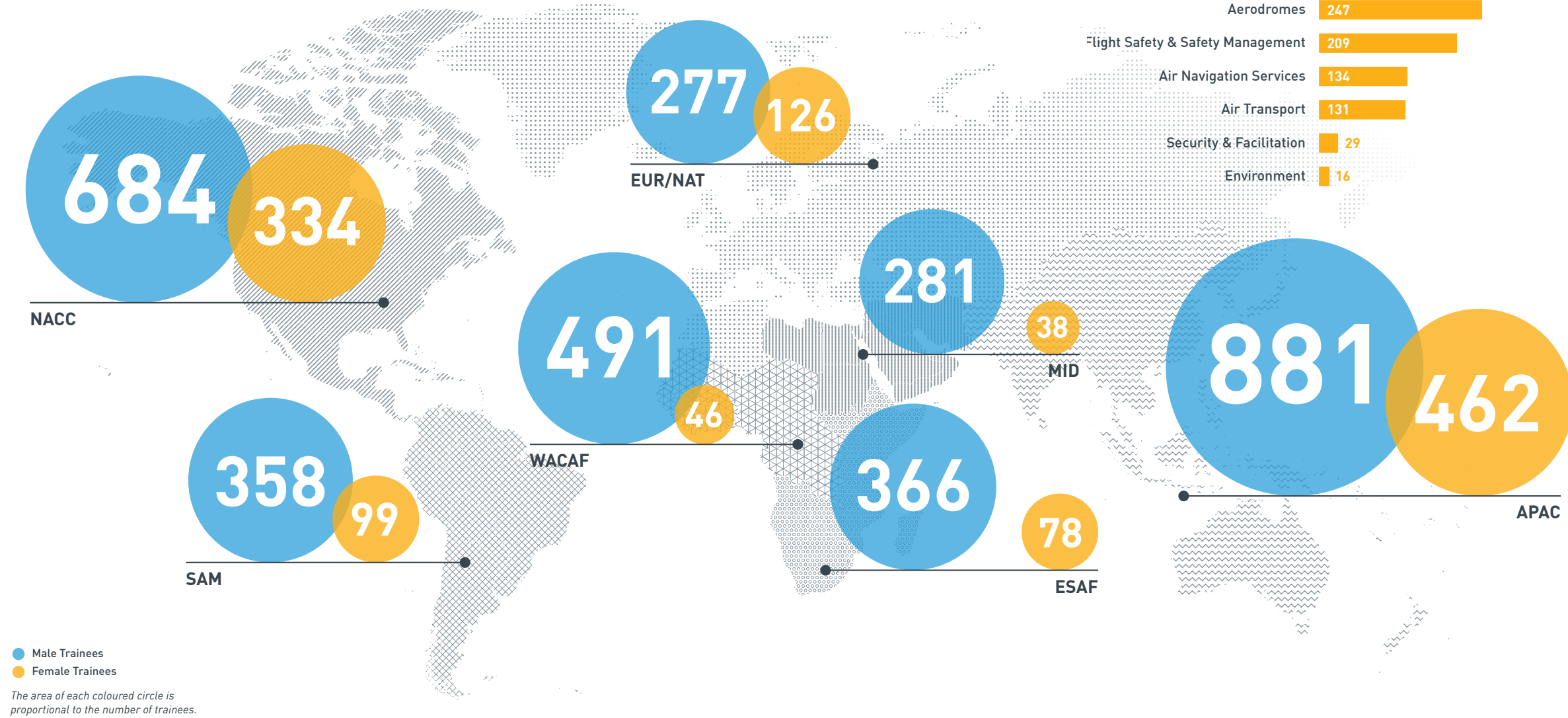
Training Competency Development

1 Managing Aviation Training Intelligence (MATI)

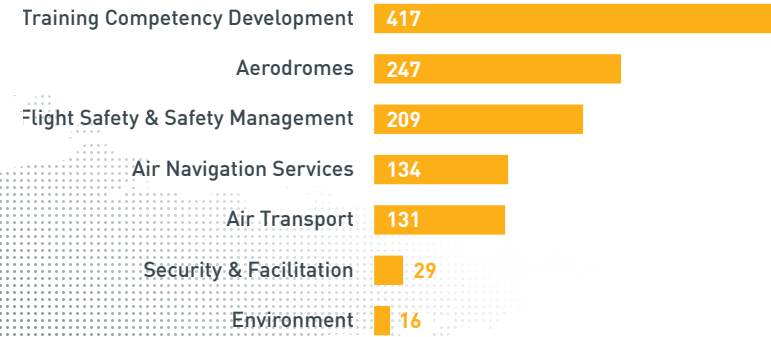


**GENDER
DISTRIBUTION**

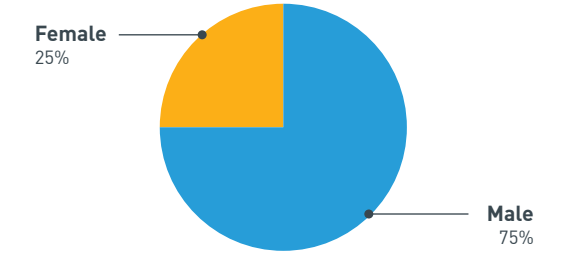
GENDER DISTRIBUTION IN ICAO TRAINING COURSES



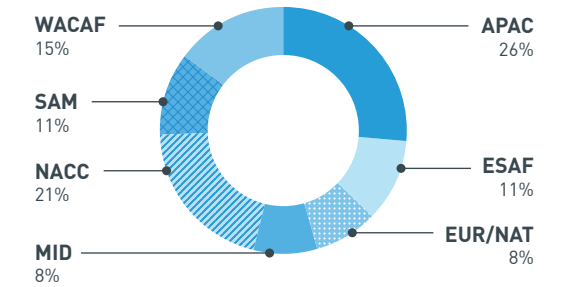
FEMALE TRAINEES PER THEMATIC AREA



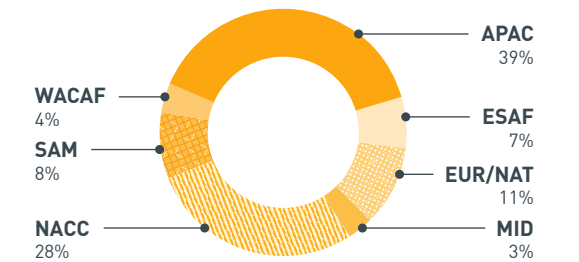
OVERALL DISTRIBUTION



MALE TRAINEES



FEMALE TRAINEES



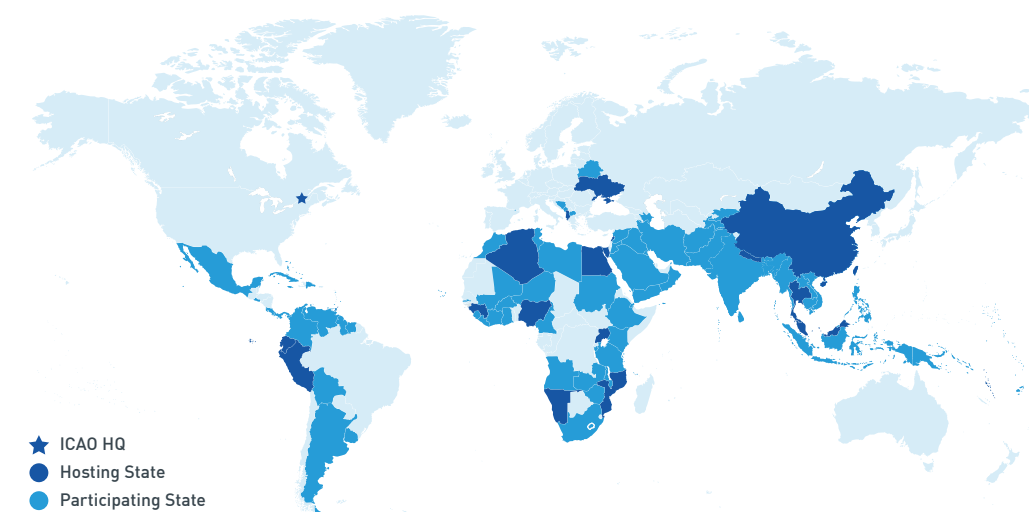
STATE-SPONSORED TRAINING



2018 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

NUMBER OF TRAINEES

TOTAL 541

APAC 153

ESAF 74

EUR/NAT 76

MID 54

NACC 48

SAM 52

WACAF 84

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 tuition fees and transportation costs.

SCHOLARSHIPS AWARDED IN 2018

Course	Location	Trainees
International Air Law Course	Nairobi, Kenya	2
Aviation Data-driven Decision Making	Montreal, Canada	1
Training Instructors Course (TIC) Part 2	Montreal, Canada	1
Universal Safety Oversight Audit Programme Computer-Based Training (USOAP CBT)	Online	2
Online Safety Management Training Course	Online	4

GLOSSARY

Scholarships: the GAT Office has established a scholarship allocation procedure for ICAO Training Packages (ITPs). Scholarships cover course tuition fees, and are provided to eligible trainees originating from States which in the context of capacity-building efforts within ICAO's No Country Left Behind initiative are endeavoring to either meet or maintain their Effective Implementation (EI) of Standards and Recommended Practices (SARPs).



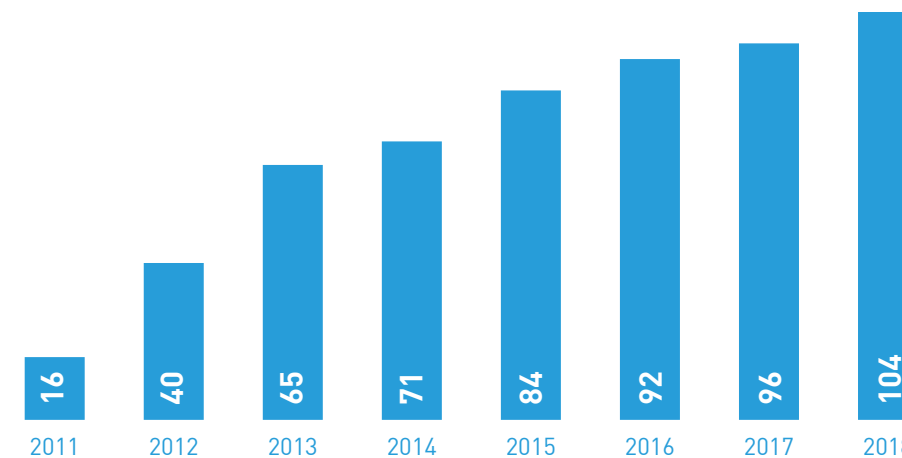
SCHOLARSHIPS

TPP MEMBERS & PARTNERS

MEMBERS & PARTNERS

OF THE TRAINAIR PLUS™ PROGRAMME

As of February 2019



6 Corporate Partners 20 Regional Training Centres of Excellence 45 Full Members 33 Associate Members New Status

CORPORATE PARTNERS (6)

- Airports Council International (ACI) ●
- Concordia University - John Molson School of Business ●
- EUROCONTROL ●
- Federal Aviation Administration Flight Standards Training Division AFS-500 ●
- Nanyang Technological University ●
- University of Waterloo ●

NORTH AMERICA CENTRAL AMERICA THE CARIBBEAN (12)

- 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) ●
- CURAÇAO**
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 ●

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) ●

ECUADOR

Escuela Técnica de Aviación Civil (ETAC) ●

PARAGUAY

Instituto Nacional de Aeronáutica Civil (INAC) ●

PERU

Centro de Instrucción de Aviación Civil (CIAC) de CORPAC ●

SURINAME

Polytechnic College Suriname ●

URUGUAY

Instituto de Adiestramiento Aeronáutico - DINACIA ●

VENEZUELA

Instituto Universitario de Aeronáutica Civil (IUAC) ●

EUROPE (15)**BELGIUM**

Wallonie Aerotraining Network (WAN) ●

FRANCE

CAMAS International ●

Centre Français de Formation des Pompiers d'Aéroport (C2FPA) ●

Ecole Nationale de l'Aviation Civile (ENAC) ●

ITALY

ENAV Academy ●

IDS Ingegneria Dei Sistemi S.p.A. ●

KAZAKHSTAN

Professional Training Center RSE "Kazaeronavigatsia" ●

NETHERLANDS

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 ●

TURKEY

Turkish Aviation Academy ●

UNITED KINGDOM

International Fire Training Centre (IFTC) Serco ●

NATS Training Services ●

AFRICA (22)**ALGERIA**

Établissement National de la Navigation Aérienne (CQRENA) ●

ANGOLA

Enana-EP/ Centro Aeronáutico de Instrução ●

BOTSWANA

IAS Aviation Academy ●

CAMEROON

Ecole Régionale de Sécurité Incendie (ERSI) ●

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) ●

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 (12)**IRAN (ISLAMIC REPUBLIC OF)**

Civil Aviation Technology College (CATC) ●

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 College (QAC) ●

SAUDI ARABIA

Saudi Academy of Civil Aviation (SACA) ●

UNITED ARAB EMIRATES

GAL ANS Training Centre ●

Gulf Center for Aviation Studies (GCAS) ●

ASIA/PACIFIC (25)**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) ●✱

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

Civil Aviation Human Resource Development Centre ●

Indonesia Civil Aviation Institute Sekolah Tinggi Penerbangan Indonesia ●

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) ●

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

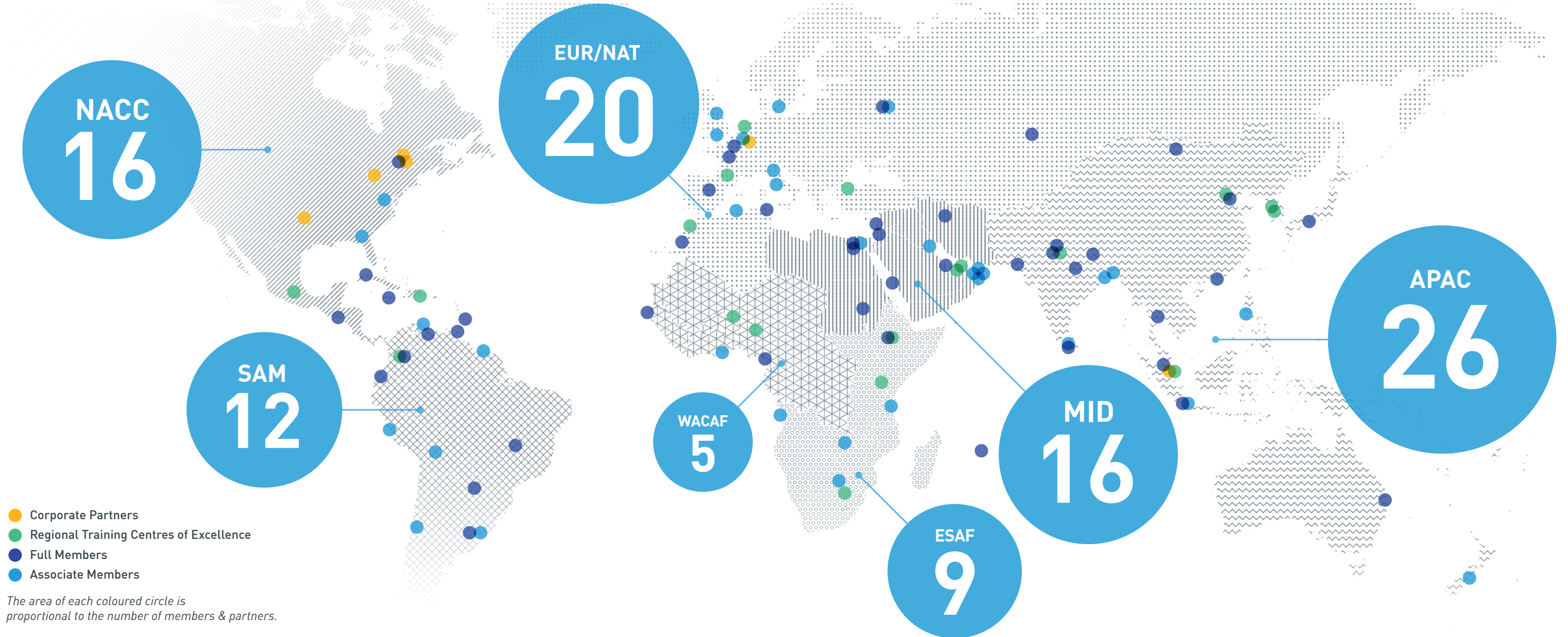
Civil Aviation Training Centre (CATC) ●

Sri Lankan Aviation College ●

THAILAND

Civil Aviation Training Centre (CATC) ●

**MEMBERS AND PARTNERS
OF THE TRAINAIR PLUS™ PROGRAMME**







| ICAO

International Civil Aviation Organization
Global Aviation Training Office
999 Boulevard Robert-Bourassa
Montreal, Quebec H3C 5H7
Canada

Tel: +1 (514) 954-8219, ext.8171
Email: AviationTraining@icao.int
Website: www.icao.int/training