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.
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### GLOBAL OUTLOOK

### Courses Delivered

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<thead>
<tr>
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<tr>
<td>Number of Instructors</td>
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<tr>
<td>Courses Developed</td>
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### Assessments of Training Centres

- Assessments of Training Centres: 10-11

### Number of Validators

- Number of Validators: 11

### REGIONAL OUTLOOK

<table>
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<tr>
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<td>Regional Overview</td>
<td>16-17</td>
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<td>Courses Delivered by ICAO Region</td>
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### THEMATIC OUTLOOK

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<td>Courses Developed by ICAO Region</td>
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<td>Gender Distribution in ICAO Training Courses</td>
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<td>Members and Partners of the TRAINAIR PLUS™ Programme</td>
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### TPP MEMBERS & PARTNERS

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<th>Members and Partners</th>
<th>Pages</th>
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<tr>
<td>TRAINAIR PLUS™ Programme</td>
<td>36-37</td>
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COURSES DELIVERED GLOBALLY

ONLINE COURSES DELIVERED IN 2019

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<th>Training package</th>
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<td>Performance Based Navigation - PBN courses</td>
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<tr>
<td>- Performance-Based Navigation (PBN) Overview: Online</td>
<td>47</td>
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<td>- Performance-Based Navigation (PBN) Operations Approval: Online</td>
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<td>- Performance-Based Navigation (PBN) for Pilots: Online</td>
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<td>- Fundamentals of the Air Transport System - Exam</td>
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<td>Safety Management: Online</td>
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<td>ICAO-ACI Global Reporting Format [GRF] - online course</td>
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<td>3,195</td>
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</table>

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.
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.

**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

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

2016 2017 2018 2019
14 18 23 26

2016 2017 2018 2019
14 25 50 68 101 142 169 201 234 268
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.

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).

WESTERN AND CENTRAL AFRICAN (WACAF) OFFICE

Member States:

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.

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.

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.
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.

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

DELIVERY
- APAC 27%
- SAM 10%
- NACC 9%
- MID 18%
- ESAF 6%
- EUR/NAT 11%

TRAINEES
- APAC 28%
- SAM 13%
- NACC 9%
- MID 13%
- ESAF 9%
- EUR/NAT 10%

DEVELOPMENT
- APAC 32%
- SAM 11%
- NACC 28%
- MID 5%
- ESAF 10%
- EUR/NAT 10%

ASSESSMENT
- APAC 32%
- SAM 3%
- NACC 11%
- MID 12%
- ESAF 10%
- EUR/NAT 10%

ASTP IMPLEMENTATION
- APAC 32%
- SAM 3%
- NACC 11%
- MID 12%
- ESAF 10%
- EUR/NAT 10%
COURSES DELIVERED BY ICAO REGION (2019)

<table>
<thead>
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**ASTC ICAO AVIATION SECURITY TRAINING BY ICAO REGION (2019)**

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<th>Course Language</th>
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<td></td>
<td></td>
<td></td>
<td>Male</td>
</tr>
<tr>
<td>Kuala Lumpur</td>
<td>Risk Management Workshop</td>
<td>EN</td>
<td>11</td>
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<tr>
<td>Hong Kong</td>
<td>Aviation Security Certification Systems Workshop</td>
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<tr>
<td>Auckland</td>
<td>Risk Management Workshop</td>
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<tr>
<td>Singapore</td>
<td>Aviation Security National Inspectors Course</td>
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<tr>
<td>Kunming</td>
<td>Aviation Security National Inspectors Course</td>
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<td>Seoul</td>
<td>Aviation Security Managers Workshop</td>
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<td><strong>Total</strong></td>
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<td><strong>125 participants</strong></td>
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**ESAF and WACAF ASTP Courses**

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<th>Course Language</th>
<th>Participants</th>
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<tbody>
<tr>
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<tr>
<td>Lagos</td>
<td>Risk Management Workshop</td>
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<tr>
<td>Douala</td>
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<td>FR</td>
<td>15</td>
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<tr>
<td>Dakar</td>
<td>National Civil Aviation Security Quality Control Programme</td>
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<tr>
<td>Nairobi</td>
<td>Airport Security Supervisors Courses</td>
<td>EN</td>
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<td>Johannesburg</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>5 training events</strong></td>
<td></td>
<td><strong>78 participants</strong></td>
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</table>

**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 16 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**

<table>
<thead>
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<th>City</th>
<th>ASTP Courses</th>
<th>Course Language</th>
<th>Participants</th>
</tr>
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<tbody>
<tr>
<td>Dublin</td>
<td>Aviation Security National Inspectors Course</td>
<td>EN</td>
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<tr>
<td>Moscow</td>
<td>Airport Security Supervisors Course</td>
<td>RU</td>
<td>12</td>
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<tr>
<td>Almaty</td>
<td>Risk Management Workshop</td>
<td>RU</td>
<td>15</td>
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<tr>
<td>NAU - Kyiv</td>
<td>Aviation Security National Inspectors Course</td>
<td>RU</td>
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<tr>
<td>Boryspil - Kyiv</td>
<td>Air Cargo And Mail Security Course</td>
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<td>Doncaster</td>
<td>Risk Management Workshop</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>9 training events</strong></td>
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**MID ASTP Courses**

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<th>ASTP Courses</th>
<th>Course Language</th>
<th>Participants</th>
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</thead>
<tbody>
<tr>
<td>Amman</td>
<td>Risk Management Workshop</td>
<td>AR</td>
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<tr>
<td>Beirut</td>
<td>Risk Management Workshop</td>
<td>EN</td>
<td>14</td>
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<tr>
<td>Dubai</td>
<td>Risk Management Workshop</td>
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<tr>
<td>Jeddah</td>
<td>Risk Management Workshop</td>
<td>AR</td>
<td>15</td>
</tr>
<tr>
<td>Cairo</td>
<td>Aviation Security (AVSEC) Instructors Course</td>
<td>AR</td>
<td>14</td>
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<tr>
<td>ICAO-RO Cairo</td>
<td>Risk Management Workshop</td>
<td>EN</td>
<td>13</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6 training events</strong></td>
<td></td>
<td><strong>93 participants</strong></td>
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**NACC and SAM ASTP Courses**

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<th>Course Language</th>
<th>Participants</th>
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<tbody>
<tr>
<td>Santo Domingo</td>
<td>ICAO Certification for Aviation Security Instructors</td>
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<tr>
<td>Quito</td>
<td>Aviation Security National Inspectors Course</td>
<td>SP</td>
<td>6</td>
</tr>
<tr>
<td>Buenos Aires</td>
<td>Risk Management Workshop</td>
<td>SP</td>
<td>19</td>
</tr>
<tr>
<td>Mexico City</td>
<td>Risk Management Workshop</td>
<td>SP</td>
<td>16</td>
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<tr>
<td>Port of Spain</td>
<td>Risk Management Workshop Train-The-Trainer Session</td>
<td>EN</td>
<td>6</td>
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<tr>
<td>Port of Spain</td>
<td>Risk Management Workshop</td>
<td>EN</td>
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<tr>
<td>Buenos Aires</td>
<td>Risk Management Workshop</td>
<td>SP</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>7 training events</strong></td>
<td></td>
<td><strong>117 participants</strong></td>
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</table>
2019 Civil Aviation Authority Senior and Middle Managers Training Course (CAA SMMTC)
FULLY FUNDED BY THE GOVERNMENT OF CHINA

GLOBAL COVERAGE

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 (SARP) 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.

<table>
<thead>
<tr>
<th>TRAINING PACKAGE</th>
<th>NUMBER OF TRAINEES</th>
</tr>
</thead>
<tbody>
<tr>
<td>APAC</td>
<td>66</td>
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<tr>
<td>ESAF</td>
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<tr>
<td>EUR/NAT</td>
<td>36</td>
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<tr>
<td>MID</td>
<td>44</td>
</tr>
<tr>
<td>NACC</td>
<td>38</td>
</tr>
<tr>
<td>SAM</td>
<td>41</td>
</tr>
<tr>
<td>WACAF</td>
<td>85</td>
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<tr>
<td><strong>TOTAL</strong></td>
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**Resource Mobilization Training**

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THEMATIC OUTLOOK
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#### Air Transport

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### 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 DPS
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** IN ICAO TRAINING COURSES

**AS PER DATA AVAILABLE**

- **Female Trainees**
  - The area of each coloured circle is proportional to the number of trainees.

### OVERALL DISTRIBUTION

- **Male** 78%
- **Female** 22%

### MALE TRAINEES

- **APAC** 27%
- **EUR/NAT** 10%
- **MID** 14%
- **NACC** 20%
- **SAM** 11%
- **WACAF** 12%

### FEMALE TRAINEES

- **APAC** 30%
- **EUR/NAT** 11%
- **MID** 10%
- **NACC** 19%
- **SAM** 11%
- **WACAF** 9%

### FEMALE TRAINEES PER THEMATIC AREA

- **Aerodromes**
  - Male 154
  - Female 122
- **Air Navigation Services**
  - Male 9
  - Female 5
- **Air Transport**
  - Male 13
  - Female 7
- **Aviation Law**
  - Male 33
  - Female 15
- **Environment**
  - Male 68
  - Female 34
- **Flight Safety & Safety Management**
  - Male 17
  - Female 9
- **Security & Facilitation**
  - Male 25
  - Female 14
- **Training Competency Development**
  - Male 179
  - Female 87

**TOTAL NUMBER OF CLASSROOM TRAINEES**

- **4027**
MEMBERS OF THE TRAINAIR PLUS™ PROGRAMME

As of July 2020

Partners
Regional Training Centres of Excellence
Full Members
Associate Members

EUR/NAT 16
AFRICA 24
MID 13
APAC 30
NACC 20
SAM 13

ICAO RECOGNITION
COLLABORATION AND PARTNERSHIPS
QUALIFICATION OF TRAINING PROFESSIONALS
ACCESS TO A VIRTUAL LIBRARY OF 200+ COURSES

MEMBERS & PARTNERS

100+
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**TRAINAIR PLUS™ PROGRAMME**

**PARTNERS**
INTERNATIONAL AVIATION ORGANIZATIONS

**ACADEMIC INSTITUTIONS**

**REGIONAL TRAINING CENTRES OF EXCELLENCE**

**FULL MEMBERS**

**ASSOCIATE MEMBERS**

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**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 an 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.