

# **Aviation Professionals Study**

## Part 3

Review of the Present Capacity of Aviation Approved Training Centers to Meet the Forecast Capacity Building Demand

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#### **ABBREVIATIONS**

AAFSA Aviation Academy for Southern Africa
AATO Association of African Training Organizations

**ACI** Airports Council International

**AFI** Africa-Indian Ocean

AFSAC Académie Tuniso-Française de Formation en Sécurité et Sûreté de l'Aviation

Civile

**AIAC** Académie Internationale Mohamed VI de l'Aviation Civile

AIS Aeronautical information services
ANAC Autorité Nationale de l'Aviation Civile

**ANS** Air navigation services

**APSAR** Aviation Professionals Study for the Africa-Indian Ocean (AFI) Region

**ATA** Aviation Training Academy

**ATED** Aviation Training and Education Directory

**ATM** Air traffic management

ATNS Air Traffic and Navigation Services
ATO Approved training organization

**BAGASOO** Banjul Accord Group Aviation Safety Oversight Organisation

**CAA** Civil aviation authority or an appropriate State aviation regulatory body

CASSOA Civil Aviation Safety and Security Oversight Agency

CATC Civil Aviation Training Center CBT Computer-based training

CNS Communications, navigation and surveillance DGM SA Dangerous Goods Management South Africa

**EAA** Ethiopian Aviation Academy

**EAMAC** École Africaine de la Météorolgie et de l'Aviation Civile

**EASA** East African School of Aviation

**ECATC** Ethiopian Civil Aviation Training Center

**EFO-CCAA** École de Formation of the Cameroon Civil Aviation Authority

EI Effective implementation ENA Escola Nacional de Aeronáutica

**ERNAM** École Régionale de la Navigation Aérienne et de Management

**ERSI** École Régionale de Sécurité Incendie

**ESAF** Eastern and Southern Africa

**ESAT** École Supérieure de l'Aéronautique et des Technologies

FAA Federal Aviation Administration
FAAN Federal Airports Authority of Nigeria
GAT Global Aviation Training Office
GCAA Ghana Civil Aviation Authority
IATA International Air Transport Association

IATA International Air Transport Association
LCCTC Loumed Cabin Crew Training Center

MET Aeronautical meteorology

NCAT Nigerian College of Aviation Technology RSOO Regional safety oversight organisation

SMS Safety management system
STP Standardized training package

SUDAFAST Sudan Academy for Aviation Sciences and Technology

TPP TRAINAIR PLUS Programme

United ATS United for Aviation Technology Services

WACAF Western and Central Africa

WBT Web-based training

**ZASTI** Zambia Air Services Training Institute

#### 1. BACKGROUND

- 1.1 In 2019, the Association of African Aviation Training Organizations (AATO) developed the "African Aviation Training Roadmap" for ICAO. AATO was given the task, in collaboration with ICAO's Global Aviation Training Office (GAT) to research and design an aviation training roadmap for the African continent.
- 1.2 The Roadmap was developed with a view to provide guidance on the development of training aviation personnel in Africa to meet future demands for the industry and in congruent with the ICAO strategic objectives, global and regional plans. It was intended to assist stakeholders develop and implement plans to ensure improved human resource requirements whilst providing harmonized and standardized quality training in Africa and to address performance issues identified through gap analysis.
- 1.3 The performance enablers that the Roadmap addressed were the standard of training, curriculum design, accreditation of qualifications, collaboration, sharing of data and global and regional plans.
- 1.4 The deliverables of the African Aviation Training Roadmap include the Roadmap itself, a list of accredited approved training organisations (ATOs), a list of available courses, a list of Instructors and their qualification, the actual training needs, facilities and infrastructure. The Roadmap also describes the intended audience and the stakeholders who will be the consumers of the information. Risks in implementing the Roadmap were highlighted according to the PESTEL¹ model and local relevancy.
- 1.5 An action plan with short, medium and long term goals are included in the Roadmap. In the short term, the Roadmap focuses on improving capacity and assisting States at the lowest compliance levels to achieve levels of effective implementation (EI) of 60 per cent and improving the EI to 90 per cent for States with an EI already above 60 per cent. In the medium term, the focus was to ensure adequate qualified personnel to replace the ageing staff, develop capacities for new technologies, harmonise and standardise training and designating centers of excellence in aviation training.
- 1.6 A training needs survey was recommended to be undertaken to inform future training requirements and ensure continuous data improvement and sharing across the continent.
- 1.7 This project, unlike the "Roadmap Study", has been limited to the training of civil aviation safety inspectors. In Part 2 of this report, courses are recommended for immediate attention (cf. Table 2 of paragraph 3.1.2). Within this scope and relying on the data already gathered in the Roadmap study, this part of the current project reviews the capacity of ATOs in the Africa-Indian Ocean (AFI) region.

# 2. CAPACITY OF AFI ATOS TO CONDUCT RECOMMENDED COURSES

- 2.1 Appendix A and B of the Roadmap, reproduced below, contain the list of ATOs in the AFI region and a list of Standardized Training Packages (STPs) taught, respectively.
- 2.2 In section 3.1.2 of Part 2 of this report, we summarized 21 formal courses recommended for the short- to medium-term implementation as shown in the table below.

<sup>&</sup>lt;sup>1</sup> Political, Economic, Social, Technological, Environmental and Legal

| Title   | Title                                 |  |  |
|---|---------------------------------------|--|--|
| New Hire Employment Orientation/<br>Indoctrination (CAA-specific) | Human Factors Principles              |  |  |
| Introduction to Authorizing Documents                             | Safety Management (EN): Online        |  |  |
| Introduction to Investigations                                    | State Safety Programme                |  |  |
| GSI OPS   | ANS ATM Inspector                     |  |  |
| GSI AIR   | ANS AIS Inspector                     |  |  |
| GSI PEL   | ANS MET Inspector                     |  |  |
| CAA Approval of Training Organizations                            | ANS CNS Inspector                     |  |  |
| Surveillance of Service Providers                                 | Aerodrome Certification               |  |  |
| Auditing Techniques   | Incident Investigation Techniques     |  |  |
| Resolution of Safety Concerns                                     | Integrated Safety Management Systems. |  |  |
| Various – Aircraft Accident Investigation                         |                                       |  |  |

Table 1: Recommended training courses for short- to medium-term implementation

- 2.3 New Hire Employment Orientation/Indoctrination is specific to each civil aviation authority (CAA). Therefore, the human resources departments should be encouraged to develop this training for its inspectors. Alternatively, regional safety oversight organizations (RSOOs), such as the Banjul Accord Group Aviation Safety Oversight Organisation (BAGASOO) or the Civil Aviation Safety and Security Oversight Agency (CASSOA) of the East African Community, may develop a generic version of this course to meet the needs of its members, especially where common or harmonized regulations are used by members.
- 2.4 As stated in Part 2 of this report, access to the Federal Aviation Administration (FAA) webbased training (WBT)/computer-based training (CBT) courses *Introduction to Authorizing Documents* and *Introduction to Investigations* may be negotiated with the FAA.
- 2.5 ICAO has confirmed that all ICAO-approved ATOs have the required facilities and are approved to host the GSI-AIR, GSI-OPS and GSI-PEL courses. However, as already stated in Part 2, section 2.4, GSI instructors are mainly from a pool of ICAO-certified instructors. As is peculiar with GSI, most of the instructors are CAA personnel and not necessarily staff of the ATOs. A summary of the current pool of certified GSI instructors is listed and discussed in Part 2 of this report.
- 2.6 The East African School of Aviation (EASA) has confirmed that the four recommended ANS inspector courses are taught at the academy, i.e. Air Navigation Services CNS Inspector, Air Navigation Services ATM Inspector, Air Navigation Services AIS Inspector and Air Navigation Services MET Inspector (see also Appendix B).
- 2.7 As stated above, for ICAO GSI courses the same principle applies to the ICAO course *CAA Approval of Training Organizations*. All ICAO-approved ATOs have the required facilities and are approved to host this course.
- 2.8 The status of the FAA Courses 15212001, Surveillance of Service Providers and 15209001, Resolution of Safety Concerns is not entirely clear. Currently, these courses are only taught by FAA instructors. There were reports that these courses were being converted to ICAO GSI courses. However, attempts to get a status report from the FAA failed. In the past, attendance to these courses was either at the

FAA Academy or as in-house courses taught by FAA instructors. Any ICAO-approved ATO may be used to host these courses.

- 2.9 BAGASOO, as an RSOO, has developed a generic version of the RSC and a course in the certification of air navigation ANSPs. These courses need to be validated by ICAO.
- 2.10 Safety management systems (SMS), auditing techniques and human factors principles are taught by various agencies, including ICAO and the International Air Transport Association (IATA) among others. These courses are available at:
  - a) ICAO TRAINAIR PLUS Members, and
  - b) IATA, through its Training Network (www.iata.org/training-network) or as in-house training (on-demand) (www.iata.org/training-inhouse).
- 2.11 The Aviation Professionals Study for the AFI Region (APSAR) aims at developing a comprehensive database application designed to address the challenges of inadequate aviation professionals in the African region. The purpose of the application is to support the development of a sustainable pool of qualified aviation personnel capable of effectively carrying out regulatory and oversight responsibilities aligned with ICAO's Strategic Objectives.
- 2.12 The application should be developed in collaboration with AATO as part of this project to continuously record and maintain the capability of the AFI region's ATOs in conducting the abovementioned recommended courses and others. AATO has been limited in the past in developing such a database due to funding challenges.
- 2.13 In conclusion, as stated in Part 2 of this report, more instructors fluent in French should be certified to teach the GSI courses, possibly pairing with more experienced English-speaking instructors for courses where participants will be predominantly French-speaking. Experts from the AFI region are invited to apply in ICAO to have in the roster of ICAO GSI instructors at least one more AIR instructor in the Easter and Southern African (ESAF) region, as well as two PEL and two OPS instructors, one each from the ESAF and Western and Central African (WACAF) region, respectively.
- 2.14 As a general recommended strategy, AFI ATOs should be empowered through AATO for capacity building with a framework of the AFI region.

### APPENDIX A. TRAINING ORGANIZATIONS IN AFRICA

| State         | Location    | Training Center  | TPP<br>Member | Website                   | Contact                              |
|---------------|-------------|--|---------------|---------------------------|--------------------------------------|
| Algeria       | Algiers     | Établissement National de la Navigation<br>Aérienne (CQRENA) | ×             | www.enna.dz               | cqrena@enna-dz.com<br>cqrena@enna.dz |
| Angola        | Luanda      | ENNA-EP/Centro Aeronáutico de<br>Instrução                   | ×             | www.enna.co.ao            |                                      |
| Botswana      | Gaborone    | IAS Aviation Academy   |               | www.flyias.net            |                                      |
| Cameroon      | Douala      | ERSI   | ×             | new.ersi-asecna.com       | contact.ersi@asecna.org              |
|               | Yaounde     | EFO-CCAA <sup>2</sup>  | ×             | www.ccaa.aero             |                                      |
| Côte d'Ivoire | Abidjan     | ANAC <sup>3</sup>  | ×             | www.anac.ci               | sombo@anac.ci                        |
| Egypt         | Cairo       | Global Aviation Consultancy Service                          |               | www.globalaviation-cs.com |                                      |
|               |             | Egyptair Training Academy                                    | ×             | training.egyptair.com     | trainingcenter@egyptair.com          |
|               | Giza        | Egyptian Aviation Academy (EAA)                              | ×             | www.eaaegypt.com          |                                      |
|               | Obour City  | United ATS <sup>4</sup>                                      | ×             | www.unitedats.com         |                                      |
| Eritrea       | Asmara      | Eritrean School of Aviation (ESA)                            | ×             |                           | bereketberhanegm@gmail.com           |
| Ethiopia      | Addis Ababa | EAA <sup>5</sup>   | ×             | www.ethiopianairlines.com |                                      |
|               |             | ECATC <sup>6</sup>   | ×             | www.flyethiopian.com      |                                      |
| Ghana         | Accra       | Crystal Galaxy College                                       |               | crystalgalaxycollege.com  |                                      |
|               |             | GCAA <sup>7</sup> Training Academy                           | ×             | www.gcaa.com.gh/gata      |                                      |

 <sup>&</sup>lt;sup>2</sup> École de Formation of the Cameroon Civil Aviation Authority
 <sup>3</sup> Autorité Nationale de l'Aviation Civile
 <sup>4</sup> United for Aviation Technology Services (United ATS)
 <sup>5</sup> Ethiopian Aviation Academy
 <sup>6</sup> Ethiopian Civil Aviation Training Center
 <sup>7</sup> Ghana Civil Aviation Authority

| State | Location       | Training Center                                | TPP<br>Member | Website  | Contact  |
|-------|----------------|--|---------------|--|--|
|       | Tema           | Mish Aviation                                  |               | www.mishaviation.com                             | info@mishaviation.com<br>femi@mishaviation.com |
|       | Takoradi       | Institute of Aviation and Professional Studies |               | iapscollege.com                                  |  |
|       |                | Prominence Aviation College                    |               | prominencecollege.com                            |  |
| Kenya | Eldoret        | Eldoret Aviation Training Institute            |               | www.eldoretaviatintraining.com<br>www.eati.ac.ke |  |
|       | Nairobi        | Aerolink Training Center                       |               |  |  |
|       |                | EASA   | ×             | www.easa.ac.ke                                   |  |
|       |                | Kenya Airways Pride Center                     |               | www.kqpridecenter.com                            |  |
|       |                | Moi University School of Aerospace             |               | aerospace.mu.ac.ke                               |  |
|       | Wilson Airport | t Aerosafe African Consultants                 |               | www.aerosafrica.com                              |  |
|       |                | Capital Connect Aviation Supplies              |               | capitalconnectaviation.com                       |  |
|       |                | Flight Training Center                         |               | flighttrainingcenter.co.ke                       |  |
|       |                | Kenya School of Flying                         |               | www.kenyaschoolofflying.com                      | +254 206 007892,<br>+254 206 008282            |
|       |                | Nairobi Flight Training                        |               | www.nairobiflighttraining.com                    |  |
|       |                | Ninety Nines Flying School                     |               | www.99flying.com                                 |  |
|       |                | Pegasus Flyers (EA) Limited                    |               | www.pegasusflyersea.com                          |  |
|       |                | Proactive Training Services                    |               | www.proactiveairservices.com                     |  |
|       |                | Standards Aviation                             |               |  | +254 706 091811                                |
|       |                | Sicham Aviation Limited                        |               |  | +254 206 003337                                |
|       |                | Skylink Flight Services                        |               | skylinkflights.com                               |  |
|       |                | Skypath Aviation College                       |               |  | skypath@amrefke.org<br>+254 20 2301958         |

| State      | Location          | Training Center   | TPP<br>Member | Website                      | Contact                                |
|------------|-------------------|---|---------------|------------------------------|--|
|            |                   | Think Aviation Training                                   |               | www.think.co.ke              |  |
|            |                   | Valentine Air Services                                    |               | www.valentineairservices.com |  |
|            |                   | West Rift Aviation Limited                                |               | westriftaviation.co.ke       |  |
| Libya      |                   | Alberta Libya for Technical Services & Consultancy        |               | www.istcenter.com            |  |
| Mauritius  | Plaine<br>Magnien | Airports of Mauritius Co Ltd. Aviation<br>Training Center | ×             | www.airportsofmauritius.aero | training@aml.aero                      |
| Morocco    | Agadir            | LCCTC <sup>8</sup>  | ×             | www.lcctc.ma                 | loumedpncenter@gmail.com               |
|            | Casablanca        | AIAC <sup>9</sup>   | ×             | www.aiac.ma                  |  |
|            | Rabat             | Groupe CFPNC/IATC Academy                                 |               | www.groupecfpnc.com          | secretariat@iatc.ma<br>cfpnc@menara.ma |
| Mozambique | Maputo            | Academia de Aviação de Moçambique                         |               |                              | +258 823132330                         |
|            |                   | ENA <sup>10</sup>   | ×             | www.iacm.gov.mz              |  |
| Niger      | Niamey            | EAMAC <sup>11</sup>                                       | ×             | www.eamac.ne                 |  |
| Nigeria    | Abuja             | Aerokeys Training School                                  |               | www.aerokeys.com.ng          |  |
|            |                   | Delfrilision Aviation School                              |               |                              |  |
|            | Asaba             | Caverton Training Organization                            |               | caverton-offshore.com        |  |
|            | Enugu             | Afrowings Academy   |               | www.afrowingsaviation.com    |  |
|            | Ikeja             | FAAN <sup>12</sup>  | ×             | faan.gov.ng                  |  |
|            | Ilorin            | International Aviation College                            |               | www.iac-ng.com               |  |

 <sup>&</sup>lt;sup>8</sup> Loumed Cabin Crew Training Center
 <sup>9</sup> Académie Internationale Mohamed VI de l'Aviation Civile
 <sup>10</sup> Escola Nacional de Aeronáutica
 <sup>11</sup> École Africaine de la Météorolgie et de l'Aviation Civile
 <sup>12</sup> Federal Airports Authority of Nigeria

| State        | Location     | Training Center                           | TPP<br>Member | Website                     | Contact                   |
|--------------|--------------|---|---------------|-----------------------------|---------------------------|
|              | Kaduna       | AFIT AMEL School                          |               | www.afit.edu.ng             |                           |
|              |              | Dornier Aviation Training School          |               | www.dananig.aero            |                           |
|              | Lagos        | Aeroconsult                               |               | www.aeroconsultonline.com/  | training                  |
|              |              | Aero Training School                      |               |                             |                           |
|              |              | Falcon Aviation                           |               | falconaviationtraining.com  |                           |
|              |              | International Helicopter School of Flying |               |                             |                           |
|              |              | Javi Aviation                             |               | javiaviation.com            |                           |
|              |              | Landover Business School                  |               | landover.aero               |                           |
|              |              | Private Flyers International              |               | Personal Website            |                           |
|              |              | Universal School of Aviation              |               | www.universalschoolofaviati | on.com.ng                 |
|              | Zaria        | NCAT <sup>13</sup>                        | ×             | ncat.gov.ng                 |                           |
| Senegal      | Dakar        | ERNAM <sup>14</sup>                       | ×             | ernam.org                   |                           |
| Sudan        | Khartoum     | SUDAFAST <sup>15</sup>                    |               | sudafast.edu.sd             |                           |
| South Africa | Bonaero Park | Comair Ltd                                |               |                             | dy.moonsammy@comair.co.za |
|              | Gauteng      | Avscan Training                           |               | www.avscan.org              |                           |
|              |              | ETS Emergency Training Solutions          |               | www.etsafrica.co.za         | woboys@etsafrica.co.za    |
|              | Johannesburg | International House Johannesburg          |               | www.ihjohannesburg.co.za    |                           |
|              |              | $ATNS^{16} ATA^{17}$                      | ×             | www.atns.co.za              |                           |

Nigerian College of Aviation Technology
 École Régionale de la Navigation Aérienne et de Management
 Sudan Academy for Aviation Sciences and Technology
 Air Traffic and Navigation Services
 Aviation Training Academy

| State                | Location                     | Training Center                      | TPP<br>Member | Website              | Contact  |
|----------------------|------------------------------|--------------------------------------|---------------|----------------------|--|
|                      | Kempton Park<br>Johannesburg | AAFSA <sup>18</sup>                  |               | www.aafsa.co.za      | iasa@mweb.co.za<br>training.aafsa@aafsa.co.za      |
|                      |                              | DGM SA <sup>19</sup>                 |               | www.dgmsa.com        |  |
| Tunisia              | Gammarth                     | Aviation Training Center of Tunisia  |               | www.atct.com.tn      | tarek.benaissi@atct.com.tn                         |
|                      | Sousse                       | CFOR                                 |               | www.cfor.com.tn      |  |
|                      | Tunis                        | AFSAC <sup>20</sup>                  | ×             | www.afsactunisie.com | training@afsactunisie.com                          |
|                      |                              | Safe Flight Academy                  |               | www.sfa.tn           | contact.pilot@sfa.tn                               |
|                      |                              | Airline Flight Academy               |               | www.afa.com.tn       | afa@unat.ens.tn<br>airlineflightacademy@yahoo.fr   |
|                      |                              | ESAT <sup>21</sup>                   |               | www.esat.ens.tn      |  |
| Uganda               | Madera                       | East African Civil Aviation Academy  |               | www.flysoroti.ac.ug  |  |
| United               | Dar es Salaam                | CATC <sup>22</sup>                   | ×             | www.catc.ac.tz       |  |
| Republic of Tanzania |                              | Regional Aviation College            |               |                      | +255 222842186, 0754754632 regionaltz@habari.co.tz |
|                      |                              | Tanzania Aviation University College |               |                      | tauc2009@yahoo.co.uk                               |
| Zambia               | Lusaka                       | ZASTI <sup>23</sup>                  |               | www.zasti.ac.zm      |  |

Aviation Academy for Southern Africa
 Dangerous Goods Management South Africa
 Académie Tuniso-Française de Formation en Sécurité et Sûreté de l'Aviation Civile
 École Supérieure de l'Aéronautique et des Technologies
 Civil Aviation Training Center
 Zambia Air Services Training Institute

### APPENDIX B. STPS, ITPS AND OTHER STANDARDIZED COURSES

This list of STPs and M-ITPs corresponds to June 2023. As the development of new training within the ICAO TRAINAIR PLUS Programme (TPP) network is very dynamic, interested parties are invited to visit the ICAO Aviation Training and Education Directory (ATED) for updated information (https://igat.icao.int/ated/TrainingCatalogue).

### B.1 STPs

| State    | <b>Training Center</b> | Website                                  | Title   | Language |
|----------|------------------------|--|---|----------|
| Cameroun | ERSI                   | www.ersi-asecna.com                      | Lutte contre les feux mineurs d'avion   |          |
|          |                        |  | Feux Généralisés d'avion  |          |
| Ethiopia | EAA                    | ethiopianairlines.com/eaa                | ICAO English Language Proficiency Interlocutor/Rater Initial<br>Training: Virtual Classroom |          |
|          |                        |  | ICAO English Language Proficiency Interlocutor/Rater Initial Training                       |          |
|          |                        |  | ICAO English Language Proficiency Interlocutor/Rater<br>Recurrent Training                  |          |
|          |                        |  | Weight and Balance for Wide Body Aircraft (B767, B777, B787 and A350)                       |          |
|          |                        | Radiotelephony Communications for Pilots |   |          |
|          |                        |  | Aircraft Systems Troubleshooting  |          |
|          |                        |  | Aviation English for Aircraft Maintenance Technicians                                       |          |
|          |                        |  | Aircraft Emergency Landing and Evacuation Procedures<br>Training for Cabin Crew             |          |
|          | ECATC                  | www.flyethiopian.com                     | Elementary Fire Fighting  | English  |
| Egypt    |                        | training.egyptair.com                    | Aircraft Loading for Load Master  |          |
|          | Academy                |  | A320NEO CFM LEAP 1A Engine Run-up   |          |
|          | United ATS             | www.unitedats.com                        | Aerodrome Pre-Flight Bulletin Issuance  |          |
|          |                        |  | Aerodrome Obstacles Evaluation  |          |

| State   | <b>Training Center</b> | Website        | Title  | Language           |
|---------|------------------------|----------------|--|--------------------|
|         |                        |                | Transition from AIS to AIM   |                    |
|         |                        |                | Initial PANS OPS 1   |                    |
| Kenya   | EASA                   | www.easa.ac.ke | Air Navigation Services CNS Inspector (virtual and classroom)  | English            |
|         |                        |                | Air Navigation Services ATM Inspector (virtual and classroom)  | English            |
|         |                        |                | Performance Based Safety Oversight Management  | English            |
|         |                        |                | Air Navigation Services MET Inspector  | English            |
|         |                        |                | Air Traffic Safety Electronic Personnel (ATSEP) Competency<br>Assessor   | English            |
|         |                        |                | CAA Approval of Training Organizations: Virtual Classroom  | English            |
|         |                        |                | CAA Approval of Training Organizations   | English            |
|         |                        |                | Air Navigation Services AIS Inspector  | English            |
| Morocco | AIAC                   | www.aiac.ma    | Human Factors Frontline ATM Operators  | English,<br>French |
|         |                        |                | Conception et mise à jour d'un Manuel de Formation et de Procédures (MFP) pour un organisme de formation agréé |                    |
| Niger   | EAMAC                  | www.eamac.ne   | Spécialiste en installation et maintenance du balisage lumineux d'aérodrome MCR 5000 – v2                      | French             |
|         |                        |                | Spécialiste en Maintenance des Stations VSAT Aéronautiques   | French             |
|         |                        |                | Supervision de la gestion de l'information aéronautique (AIM)  | French             |
| Nigeria | NCAT                   | ncat.gov.ng    | Airport Emergency Procedures   | English            |
|         |                        |                | Air Traffic Safety Electronics Personnel (ATSEP) – Basic   | English            |
|         |                        |                | ATSEP Communication Equipment Maintenance  | English            |
|         |                        |                | ATSEP Surveillance Maintenance   | English            |
|         |                        |                | ATSEP Airport Power Systems and Facilities Maintenance   | English            |
|         |                        |                | ATSEP Navigation Aids Equipment Maintenance  | English            |

| State                | Training Center             | Website               | Title  | Language |
|----------------------|-----------------------------|-----------------------|--|----------|
|                      |                             |                       | ATSEP – Data Processing & Automation   | English  |
|                      |                             |                       | ATSEP – Systems Monitoring & Control   | English  |
|                      |                             |                       | ATSEP Pre On-The-Job Training  | English  |
| Senegal              | ERNAM                       | ernam.org             | Gestion du Trafic Aérien sur un Aérodrome AFIS                               |          |
| South Africa         | ATNS ATA                    | www.atns.co.za        | Performance-based Navigation (PBN) for Air Traffic Services Officers (ATSOs) | English  |
|                      |                             |                       | Quality Management System (QMS) Internal Auditors Course                     |          |
|                      |                             |                       | ATM/CNS Computer Networking  |          |
| United               | Tanzania Civil              | www.catc.ac.tz        | Conveyors (Belt and Carousel) Maintenance Course                             |          |
| Republic of Tanzania | Aviation<br>Training Centre |                       | Approach Control Procedural Refresher  |          |
| Tunisia              | AFSAC                       | www.afsac-tunisie.com | Gestion Efficace du Processus Lettres OACI aux États                         | French   |

### **B.2 STPs Under Development**

| State        | Training Center | Website                   | Title   | Language |
|--------------|-----------------|---------------------------|---|----------|
| Cameroon     | ERSI            | www.ersi-asecna.com       | Lutte Contre les Feux Mineurs d'Avion   | French   |
| Ethiopia     | EAA             | ethiopianairlines.com/eaa | Aviation English for Aircraft Maintenance Technicians & Engineers                         | English  |
| Kenya        | EASA            | www.easa.ac.ke            | Air Navigation Services MET Inspector   | English  |
|              |                 |                           | Air Navigation Services AIS Inspector   | English  |
| Niger        | EAMAC           | www.eamac.ne              | Spécialiste en installation et maintenance du balisage lumineux d'aérodrome MCR $5000-v2$ | French   |
|              |                 |                           | Gestion d'un Espace Aérien RVSM   | French   |
|              |                 |                           | Mesure des Paramètres Météorologiqes en Altitude  | French   |
| South Africa | ATNS ATA        | www.atns.co.za            | Internal Auditors Course  | English  |

Performance-based Navigation (PBN) for Air Traffic Services English Officers (ATSOs)