UNSA

UNITED NATIONS SIGNALS ACADEMY

ANNUAL REPORT **2019**

UN SIGNALS ACADEMY
EX DOCTRINA AD PRACTICU

United Nations Signals Academy
Annual Activity Report 2019

EXECUTIVE SUMMARY

The UN Signals Academy annual report captures progress of project implementation during 2019. It includes budget aspects. Additional information is provided in the form of annexes.

During the reporting period, 255 courses were delivered, training a total of 2,337 signals and ICT personnel.

In 2019, the second edition of the ICT Training of Trainers (ICT TOT#2) Course was delivered by the UN Signals Academy at the Regional Service Centre Entebbe (RSCE) as well as the sixth edition of the Women's Outreach Course (WOC#6) and the very first edition of the Modular Command Centre (MCC) and Modular Power Pack (MPP) Course.

In addition to in-house training, 252 courses were delivered in-mission, training 2,297 signals and ICT personnel,

including 15.6% women, in MINUSMA, UNSOS and MINUSCA.

Progress has also been achieved towards establishing an effective operational training environment, through the procurement of equipment.

The UN Signals Academy programme will expand in 2020 and beyond through new strategic partnerships to include a Mission Operational Centre Simulation Training Environment (OPSCEN-STE) to deliver "Unite Aware" application suite "scenario-based" training (Partner Canada), all basics of ICT training courses through E-learning (Partners Denmark, France, NATO), non-ICT technologies particularly Micro Unmanned Aerial Systems (Micro Drones) (Partner France and Uganda) and the UNSA training audience will expand to include ICT Senior Non-Commissioned Officers.

BACKGROUND

The highly volatile and complex peacekeeping environment is demanding better operational responsiveness from UN peacekeepers, which implies efficient command, control and situational awareness capabilities, and a common operational picture. With over 160,000 authorized personnel deployed in often remote and high-risk locations, UN-supported peacekeeping operations require in particular strong communications and technological capabilities to guarantee the flow of information between leadership, military, police and civilians.

Command and control communications is critical for both normal and crisis operations and is considered both a life support activity and a force multiplier. With multiple TCC and PCC nationalities, using national systems that are in many cases incompatible, the role of the UN is to provide cross cutting communication systems, support and interoperability, to facilitate the afore mentioned command and control. This requires signals staff officers and contingents to be familiar with operating and supporting UN equipment and to have a common understanding of standard operating procedures.

As highlighted in the Final Report of the Expert Panel on Technology and

Innovation in UN Peacekeeping: "Performance Peacekeeping" (2014), "The use of modern technology to help peacekeeping missions establish and maintain situational awareness, carry out their mandates, and protect themselves is neither aspirational nor luxury. The availability and effective use of such technology represents the essential foundation - the very least that is required today - to help peacekeeping missions deploy to and manage complex crises that pose a threat to international peace and security"[1].

Launched in fall 2015 as an outcome of the Partnership for Technology in Peacekeeping (PTP)[2] , the UN Signals Academy (UNSA) programme was established by the Information and Office of Information and Communications Technology (OICT), Operations Support Division to address identified gaps in Troop and Police Contributing Countries (TCCs/PCCs) signals capacity.

The overall objective of the project is to enhance the preparedness of signals military and police personnel to be deployed into UN peacekeeping missions through the provision of standardized, mission-specific and gender-inclusive hands-on ICT training on UN owned equipment (UNOE) and

---

[1] http://www.performancepeacekeeping.org/
[2] The UN Department of Field Support (DFS) created the Partnership for Technology in Peacekeeping (PTP) in 2014 as a platform to facilitate dialogue on technology in peacekeeping between the UN and a wide range

of partners, including member states, regional organizations and the academia. The third international PTP Symposium was held in November 2016 in Seoul, South Korea. The fourth in May 2018 in Berlin, Germany. The fifth in Astana, Kazakhstan.

UN standard operating procedures, with the following overarching benefits:

- Greater troops coordination and inter-operability;
- Enhanced women participation in peace and security;
- Economies of scale for missions' operations;
- Strengthened ICT strategic partnerships;
- Local ownership

TCCs/PCCs, supporting UN Member States, who provide training expertise, equipment, funding and other resources, and the UN Secretariat. The UNSA project uses the same model adopted by the African Rapid Deployment Engineering Capabilities (ARDEC) project[4].

The project contributes to the achievement of the following UN Sustainable Development Goals (SDGs): achieve gender equality and empower all women and girls (Goal 5), promote just, peaceful and inclusive societies (Goal 16) and revitalize the global partnership for sustainable development (Goal 17), in particular target 17.6: "enhance North-South, South-South and triangular regional and international cooperation on and access to science, technology and innovation".

In line with the recommendations of the High-Level Independent Panel on United Nations Peace Operations (HIPPO)[3], the project adopts a Triangular Partnership Model of cooperation between

---

3
http://www.un.org/en/ga/search/view_doc.asp?symbol=S/2015/446

[4] The UN African Rapid Deployment Engineering Capabilities (ARDEC) project is a triangular

partnership project launched in 2015 to support African troop contributing countries (TCCs) in creating or enhancing their Horizontal Military Engineering Contingents capacity to enable them to undertake engineering support to peacekeeping missions.

UNSA AT A GLANCE

UNSA

was established in 2015 as an outcome of the first **Partnership for Technology in Peacekeeping Symposium** (2014 Brindisi, ITA)

It is located at the **Regional Service Centre Entebbe** (RSCE), Uganda

It is managed by UNHQ Office of Information and Communication Technology (OICT)

TRIANGULAR PARTNERSHIP MODEL

152 Member States have endorsed the Declaration of Shared Commitments on UN Peacekeeping Operations, in which recognizes "triangular partnership" as an innovative approach

OBJECTIVES

- Support **Action for Peacekeeping (A4P)** objectives
- **Enhance preparedness** of military signals, police ICT specialists and other targeted uniformed personnel prior to deployment in UN missions
- Support objective to **increase women participation** in UN Peacekeeping

APPROACH

TRAIN
- Provide **standardized and mission-specific training** on field technologies to UN military and police signals personnel

EQUIP
- Procure **UN-owned equipment** to support training

BENEFITS

TROOP CONTRIBUTORS
- Better coordination & interoperability between contingents from different countries

FINANCIAL CONTRIBUTORS
- Opportunity to flexibly support enabling capacity in peacekeeping missions

UNITED NATIONS
- Enlarged pool of signals personnel with strengthened communication and technological capacities

CROSS-CUTTING BENEFITS
- Enhanced performance and efficiency of signals staff, in line with UN standard operational requirements
- Improved gender equality among signals personnel
- Economies of scale for missions' operations

ACTIVITIES AND ACCOMPLISHMENTS

In-House Training

- ### ICT Training of Trainers

The second edition of the United Nations Signals Academy (UNSA) ICT Training of Trainers was held from 10 to 29 June 2019 at the Regional Service Centre Entebbe (RSCE) in Uganda.

An award ceremony was held on the final day and concluded the three-week training, which was attended by 20 signals professionals (13 male and 7 female officers) from 15 countries: Benin, Burundi, Egypt, Ethiopia, Ghana, Guinea, Japan, Mauritania, Mongolia, Moldova, Nepal, Pakistan, Togo, Tunisia, and Uganda.

The ICT Training of Trainers course was specifically designed to develop the training capacity of Troop Contributing Countries to train their own personnel in-country, to conduct mobile trainings

in-mission, and to create an essential resource for building local ownership.

The training-of-trainers learning model allows for a rapid expansion of knowledge and skills on the use of new ICT technologies and United Nations Owned Equipment; whereby, the trained trainers share their new knowledge with their military ICT colleagues to prepare them for deployments to peacekeeping missions.

Mr. Mark Polane, Regional Business Relationship Manager and Officer in Charge of the Regional Field Technology Service (RFTS), commended participants for their focus and commitment throughout the training.

Course representative Major Muhammad Mustafa thanked the UN for

organizing the training. He highlighted the benefits gained during the course, thanking the trainers for their mastery of the topics taught. He also thanked his fellow participants for the great teamwork and effort during the course.

- ▪ **Modular Command Centre and Modular Power Pack training**

The first pilot Training of Trainers for the Modular Command Centre (MCC) and Modular Power Pack (MPP) was held from 16 to 27 September 2019 at Regional Service Centre Entebbe (RSCE), with ten participants from UNISFA, UNSOS, MONUSCO, MINUSCA, MINUSMA and UNMISS.

The goal of the training was to develop a pool of trainers who can effectively and efficiently train others to safely deploy and operate MCC and MPP, and to build a skill set for a successful and safe deployment and dismantling of MPP and MCC.

The MCC project produced 5 rapidly Deployable ICT Command and Communications modules, each consisting of an ICT technology containerized Modular Command Centre (MCC) and a Modular Power Pack container module (MPP).

UN bases and camps are the target of attacks by armed groups with support to peace processes which prevent the delivery of vital assistance to the needy communities.

In response to these threats and to enhance the security of personnel, the UN is installing sophisticated systems in camps that include specialized monitoring equipment to greatly increase situational awareness. These include day/night sensors, high-definition long-range cameras, and observational ground radar to detect potential attacks on UN infrastructure and vehicles. These technologies are essential to the safety of the personnel and partners on the ground.

The German Agency for Humanitarian Relief (THW) supported the United Nations with the development of a start-up and take-down procedure, which included recommendations for technical upgrades to the system and documentation package describing the procedures.

To enable the United Nations make most efficient use of the systems, training is provided by the UN Signals Academy to users and supporting staff in Field Missions. In July 2019 a workshop was held at the RSCE with subject matter experts to develop a curriculum for each user category, including placement tests.

The five (5) German funded systems are currently deployed in Moya-MONUSCO, Juba-UNMISS, Mogadishu-UNSOS, Entebbe-RSCE and UNGSC-Brindisi.

The MCC MONUSCO has been deployed at a Temporary Operations Base.

- ▪ **Women's Outreach Course**

The sixth edition of the United Nations Signals Academy (UNSA) Women's Outreach Course was held between 14 October and 1 November 2019 at the UN Regional Service Centre Entebbe (RSCE) in Uganda and was attended by 20 participants from 15 countries: Bangladesh, Gambia, India, Jordan, Kenya, Liberia, Madagascar, Mexico, Morocco, Namibia, Nepal, Nigeria, Thailand, Uganda, Zimbabwe.

Participants acquired the necessary knowledge and skills on command, control, communications operations, planning systems as well as the relevant UN policies, regulations and standard operating procedures required to prepare them for deployment to UN peacekeeping operations as signals staff officers in a Force or Sector Headquarters (U6/G6/S6), and as police officers in the role of advisors to police commissioners on ICT matters. The training adopted an interactive

The MCC UNSOS has been installed at Sector HQ level in Mogadishu.

UNMISS plans to use the MCC system as rapidly deployable ICT centre for its new Disaster Recovery and Business Continuity (DRBC) team.

The MCC at UNGSC is awaiting transport Abyei-UNISFA for use in support of the Ameit Market security project.

The MCC at RSCE-UN Signals Academy is used for training purposes and represents a rapidly deployable strategic reserve.

approach, combining theory with hands-on practice and integrated group exercises.

Divided into an ICT/Signals technical component (5 days) and a staff officers' component (5 days), this edition of the Women's Outreach Course was, for the third time, conducted in collaboration with the UN Integrated Training Service (ITS). Course included also exchanges with OICT OSD Director, Mr. Anthony O'Mullane, a personal experience testimony from Major Masuma Lutfun Nahar, MINUSMA Deputy Chief G6 Kidal, as well as Major General Pearce, Force Commander at the United Nations Peacekeeping Force in Cyprus (UNFICYP).

The Graduation and Closing Ceremony of the course was held on 1 November 2019 and was attended by the trainees, and by the following distinguished guests: Brigadier General Moses Lukyamuzi, Uganda Peoples' Defense

Forces, Mr. Takaaki Usui, First secretary, Embassy of Japan in Uganda. Mr. Philippe Schifferling, UN Signals Academy (UNSA) programme management officer since July 2019, acknowledged the presence of the distinguished guests, trainees, trainers, and UN colleagues, and emphasized the importance of the UN Signals Academy as a training hub for ICT technologies that improves the effectiveness and efficiency of service delivery within the missions. He also described the new objectives of the UNSA for 2020 and beyond, underlined that six WOC have been organized, training 177 women from 57 countries in Africa, Asia, Europe, Latin America and the Middle East. The value of the WOC can be measured from the 23 graduates who have been deployed after undertaking the Course as staff officers, military observers or police advisors.

Figure 1- Women's Outreach Course, Closing Ceremony, 1 November 2019, UN RSCE, Uganda.

In-Mission Training

The following Information & Communications Technology training courses were delivered in the Field Missions by Field Technology Section trainers:

- **MINUSCA**

Training Name & Location	No. Days	No. of pax
HF CODAN	**76**	**9**
Bambari	8	1
Bangui	11	1
Bria	32	4
Ndele	25	3
HF CODAN / UHF TETRA	**16**	**10**
Kagabandoro	14	9
Ndele	2	1
MICRO UAV	**59**	**44**
Bangui	47	34
Camp Fidel Egypt FPU	6	5
Ndele	6	5
UNITE AWARE	**8**	**1**
Bambari	8	1

- **MINUSMA**

Training Name & Location	No. Days	No. of pax
COMPUTER INFORMATION SYSTEM	**66**	**15**
Bamako	46	14
Kidal	20	1
CYBER SECURITY	**10**	**2**
Kidal	10	2
HF CODAN	**29**	**4**
Bamako	1	1
Mopti	14	1
Timbuktu	14	2
MS OFFICE 365 PRODUCTS (Project, Power BI, Visio)	**84**	**22**
Bamako	38	16
Kidal	42	3
Timbuktu	4	3
MS OFFICE APPLICATIONS (Word, Excel, PowerPoint)	**111**	**31**
Bamako	76	26
Gao	10	2
Kidal	25	3
PUBLIC ADDRESS SYSTEM	**1**	**2**
Gao	1	2
SERVICE DESK	**5**	**3**
Gao	5	3
U.N. Applications (FSS, COSMOS, Unite Workspace)	**194**	**49**
Bamako	96	29
Gao	13	4

	57	8
Kidal	57	8
Mopti	21	3
Timbuktu	7	5
UHF TETRA	**501**	**70**
Bamako	231	41
Gao	23	7
Kidal	13	1
Mopti	39	3
Timbuktu	195	18
WINDOWS 10	**79**	**13**
Bamako	31	6
Kidal	18	2
Menaka	2	1
Mopti	16	1
Timbuktu	12	3

▪ **UNSOS**

Training Name & Location	No. Days	No. of pax
Assets Management	**13**	**1**
Mogadishu	13	1
CISCO	**41**	**14**
Mogadishu	41	14
Codan RIOS	**114**	**15**
Jowhar	16	2
Mogadishu	98	13
Computer Skills	**92**	**17**
Baidoa	20	3
Beletwenye	26	5
Jowhar	8	4
Mogadishu	38	5
Cyber security	**8**	**1**
Jowhar	8	1
Fibre Optic & Infrastructure Cabling	**15**	**3**
Jowhar	15	3
HF CODAN	**76**	**16**
Dhobley	10	1
Kismayo	18	3
Mogadishu	48	12
ICT Security	**54**	**6**
Beletwenye	34	5
Jowhar	20	1
ICT Systems	**70**	**18**
Mogadishu	70	18
Introduction to Communications	**10**	**1**
Dhobley	10	1
Iridium	**128**	**11**
Dhobley	20	3
Kismayo	17	3
Mogadishu	91	5
MCOP (Mission Common Operation Picture)	**34**	**10**

Mogadishu	34	10
Micro UAV	**44**	**6**
Jowhar	19	2
Mogadishu	25	4
Microwave	**11**	**2**
Mogadishu	11	2
MS OFFICE 365	**6**	**4**
Mogadishu	6	4
MS OFFICE APPLICATIONS (Word, Excel, PowerPoint)	**118**	**20**
Beletwenye	11	4
Jowhar	58	11
Mogadishu	49	5
Situational Awareness	**49**	**3**
Jowhar	31	1
Mogadishu	18	2
Solar Training	**7**	**3**
Mogadishu	7	3
UHF TETRA	**106**	**7**
Dhobley	10	1
Kismayo	17	2
Mogadishu	79	4
WINDOWS 10	**62**	**20**
Baidoa	22	8
Beletwenye	27	7
Jowhar	13	5

e-Learning

A series of e-courses are being developed with funding from the Government of Denmark and the collaboration of in-house Subject Matter Experts, on topics that are already being taught at the UNSA. E-learning courses are not aimed at substituting, but at complementing classroom-based courses, to enable trainers in Entebbe to dedicate more time to more advanced knowledge/skills and hand-on practice.

Courses will be available in both English and French and with different levels (foundation, intermediate, advanced).

A test will be administered at the end of each course with a pass rate of 75%. This is part of UNSA efforts to upgrade its performance measurement tools, the certificate can be requested from applicants as a pre-condition for their participation to classroom-based training in Entebbe.

The first UNSA e-course: "Basic of Radio Communications" will be delivered in Q1-2020.

- ▪ **Approved Courses**

Code	Course Name	Duration Hh:mm	Remarks
ICT #3	Basic of Radio Communications	4:21	Under Development
UA #1	Foundation course	0:40	Under Development
UA #2	Data Entry Beginner course	1:30	Under Development
UA #3	Data Entry Advanced course	2:00	Under Development
UA #4	Visualization Beginner course	1:30	Under Development
UA #5	Visualization Advanced course	2:00	Under Development
UAS #1	Foundation course	1:00	Custom required

- ▪ **Planned Courses**

Code	Course Name	Duration Hh:mm	Remarks
ICT #1	UN PKO ICT Staff Officer pre-induction course	4:00	Creation
ICT #2	UN Women's Outreach pre-induction course	4:00	Creation
ICT #4	Basics of Satellite Communications	3:30	
ICT #5	Basics of Microwave Digital Line of Sight	3:30	
ICT #6	Basics of Network	4:30	
ICT #7	Basics of Routing	4:30	
ICT #8	Basics of IT Infrastructure & Servers	4:30	
ICT #9	Basics of Cloud Computing and Storage	4:30	
ICT #10	Basics of Cyber Security	4:30	
ICT #11	Basics of Spectrum Management	4:30	
ICT #12	MCC MPP pre-induction course	4:30	

Equipment

The following ICT equipment was acquired in support of UNSA training.

Funding Source	Equipment Description	Cost
JAPAN Trust Fund	Codan Radio Communications Equipment	$ 54,174.66
JAPAN Trust Fund	Sigma Wireless Communications Equipment	$ 38,943.05
JAPAN Trust Fund	Microwave Indoor and Outdoor Communications Equipment	$ 37,909.00

STRATEGIC PARTNERSHIPS

Canada

The Government of Canada is a strong supporter of the UNSA programme. In the frame of the Triangular Partnership, Canada has provided a significant extra-budget grant to the UNSA programme in 2019 to support the setting up of an Operational Centre Simulated Training Environment (OPSCEN-STE) within UNSA premises in Entebbe. From 2020, this new facility will be delivering operational-focused and scenario-based practical training to Mission's operators by using the Unite Aware application suite that enhances situational awareness and decision making. In addition, Canada has committed to provide additional funding in support the delivery of C4ISR training courses at the UNSA. Canada has committed to further contribute to the UNSA objectives of delivering training course in French language to better respond to the expectations from African Union French-speaking member states and supporting A4P gender objectives through the Women's Outreach Course which aims to train female military and police officers prior to their deployment in Peacekeeping.

Denmark

The Government of Denmark is a strong supporter of the UNSA programme. In the frame of the Triangular Partnership, Denmark has provided a significant extra-budgetary grant for the period 2019-2021. In 2019, the Government of Denmark has funded:

- the development of a Learning Management System designed to offer online training to T/PCCs and Field Missions,

- the development of seven C4ISR E-learning courses,
- the ICT Trainers-of-Trainers course #2 that was held from 10-28 June 2019 at the UN Signals Academy Entebbe with 20 participants (13 male and 7 female) from 15 countries – Benin, Burundi, Egypt, Ethiopia, Ghana, Guinea, Moldova, Nepal, Togo, Tunisia, Japan, Mauritania, Mongolia, Pakistan, Uganda).

Japan

The Government of JAPAN is a major supporter of the UNSA programme. In the frame of the Triangular Partnership, JAPAN has provided US$3 million extra-budgetary grant to the UNSA programme for the period 2016-2019. In 2019 the government of JAPAN funded the sixth edition of the Women's Outreach Course (WOC) at the Regional Service Centre Entebbe (RSCE) in Uganda, from the 14th October to the 1st November 2019. The Women's Outreach Course is a direct response to Security Council Resolution #2122

(2013), which encourages troops and police- contributing countries (T/PCCs) to increase the participation of women military and police officers in UN peacekeeping operations and address gender imbalance.

The WOC#6 was attended by 20 participants from 15 countries: Bangladesh, Gambia, India, Jordan, Kenya, Liberia, Madagascar, Mexico, Morocco, Namibia, Nepal, Nigeria, Thailand, Uganda, Zimbabwe.

North Atlantic Treaty Organization (NATO)

An UN-NATO strategic partnership is currently under development. UN HQ OICT Operations Support Division and UN Signals Academy met with the Senior Management of both the NATO Communications & Information Agency and Academy in Oeiras, Lisbon area, Portugal, on 10 December 2019 for a one-day workshop. The purpose of the meeting was to explore the possibility of an ambitious, realistic and tangible strategic partnership between the NATO Communications & Information Academy (NCI Academy) and the United Nations Signals Academy (UNSA).

As agreed during the workshop, the United Nations HQ Office of Information and Communications Technology (OICT) Operations Support Division and the UN Signals Academy strategic partnership proposal was submitted to the NCI Academy for a duration of 24 months and is currently under review.

United States Africa Command

The United States Military Command for AFRICA invited UN Signals Academy to participate to the AFRICA ENDEAVOR 2019 Symposium, conducted in Accra, Ghana, from 19 to 23 August 2019.

AFRICA ENDEAVOR is an annual 5-day U.S. Africa Command (AFRICOM) hosted, J6 conducted, senior leader engagement, communications symposium, and capstone event with technology exhibition. The event focuses on strategic level Command, Control, Communications and Computers (C4) Techniques, Tactics, and Procedures to encourage communications interoperability and information sharing among African partners.

The UNSA Programme Manager gave two presentations, on "UN Peacekeeping and Technology" and on "UN Signals Academy, a triangular partnership".

AFRICA ENDEAVOR represents a great opportunity for UN OICT OSD to strengthen or develop strategic partnerships with USAFRICOM and AU Member States, and to provide an update on current "UN Peacekeeping and Technology" as well as on the "UN Signals Academy" programme.

Delegations Visits

The following delegations visited RSCE and UNSA in 2019:

10 MAY 2019, GOVERNMENT OF JAPAN

Colonel Kazumasa Oku
Chief of Operation Support Section, Operation Support Division, Operation Support and Training Department, Ground Staff Office

Lieutenant Colonel Koji KAMEDA
Plan and Administration Office, Medical Department, Ground Staff Office

Lieutenant Colonel Koji TODO
Deputy Commander, 12th Engineering Group

13 MAY 2019, UNITED KINGDOM ROYAL COLLEGE OF DEFENCE STUDIES

27 AUGUST 2019, GOVERNMENT OF JAPAN

Mr. Kenya Uehara
Principal Deputy Director, International Peace Cooperation Division, Foreign Policy Bureau

18 NOVEMBER 2019, GOVERNMENT OF JAPAN

Mr. Fumio Yamazaki
Director, International Peace and Security Cooperation Division, Foreign Policy Bureau

Major Tatsuki Yamaji
International Operations Officer, Operations Support Division, Operations Support and Training Dept., Japan Ground Self Defense Force

21 NOVEMBER 2019, MILITARY STAFF COMMITTEE

Brigadier General Roland Margueritte
Military Adviser, France

Colonel Oliver Nurton
Military Adviser, UK

Colonel Justin Sapp
Military Adviser, USA

Lieutenant Colonel Million Ndlovu
UNHQ representative

Lieutenant Colonel Danny Geerinck
Deputy Military Advisor, Belgium

2 DECEMBER 2019, SPECIAL COMMITTEE ON PEACEKEEPING OPERATIONS (C34)

Richard Arbeiter
Canada Ambassador and Permanent Representative, Head of C34 Delegation

Challenges

The UN Signals Academy senior Programme Management officer left UN HQ in December 2018 to be posted in an UN Field Mission. The UN Signals Academy deputy Programme Management officer had a break in service in January and February 2019 and then left OICT and the programme end of June 2019. The UN Signals Academy programme was then handed over to the OICT OSD strategic partnership officer's portfolio in July 2019.

It is to be reminded that the UNSA programme doesn't benefit of any regular budget and relies entirely on the generous support from Member States. Without extra budgetary funding, the UNSA programme could be at risk and thus it is critical that the circle of partnering Member States grows to better support A4P, T/PCCs capacity building and gender objectives.

STATISTICS AND ANALYSIS

Overall Figures

Graphs below show the cumulative number of trainees per month. In 2019, a total of 255 trainings were delivered and 2,337 signals personnel, trained.
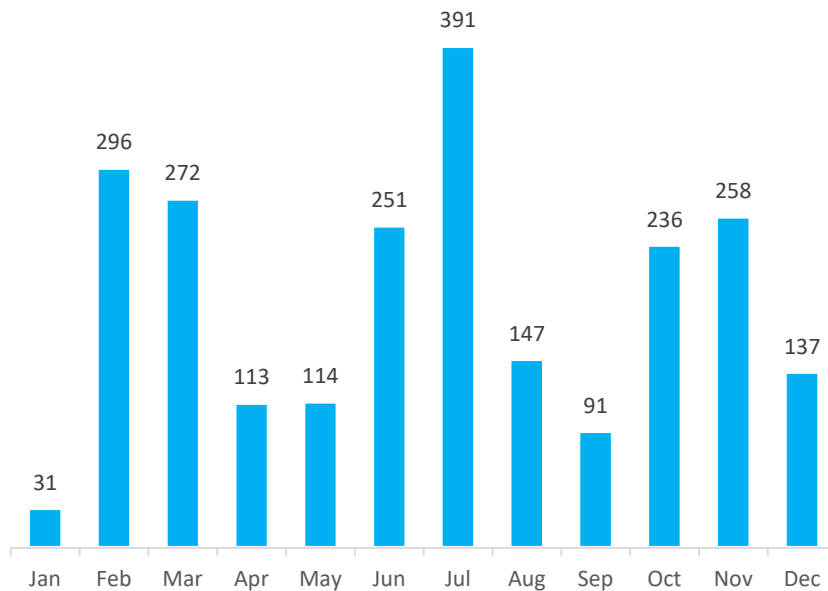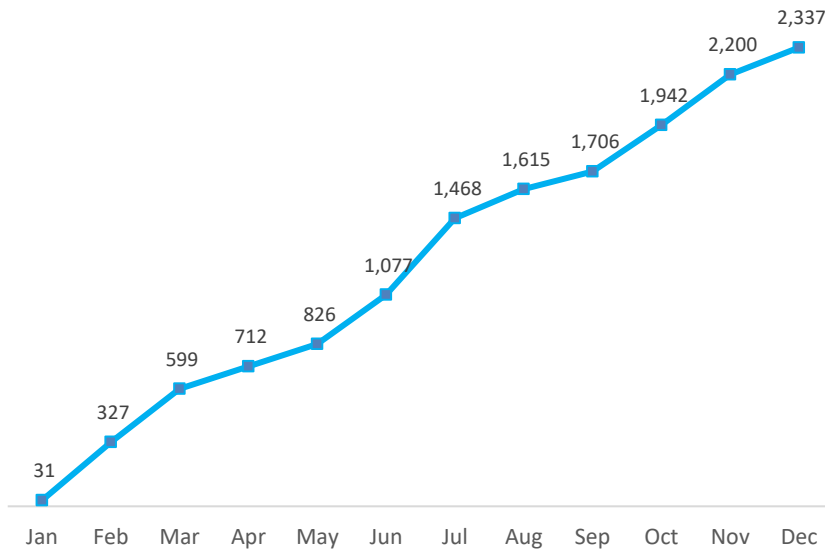
Training by Location

In-mission training represented 98% of trainings. MINUSMA and UNSOS had the highest number of trainees: 1,080 (46%) and 1,058 (45%) respectively, followed by MINUSCA: 159 (7%).

MINUSMA, 1080, 46%

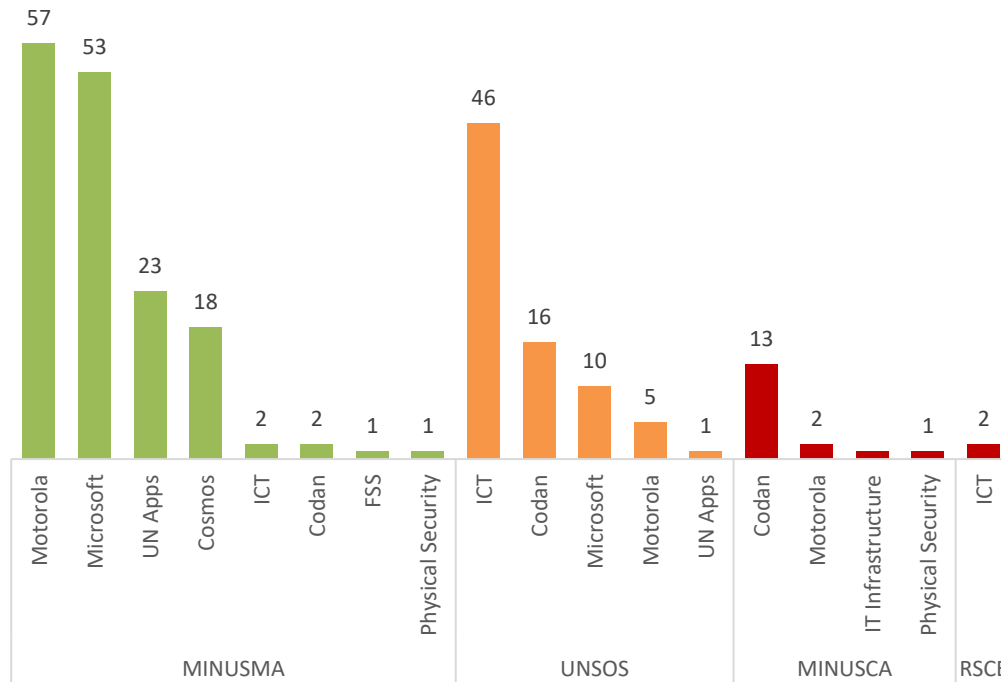UNSOS, 1058, 45%

MINUSCA, 159, 7%

RSCE, 40, 2%
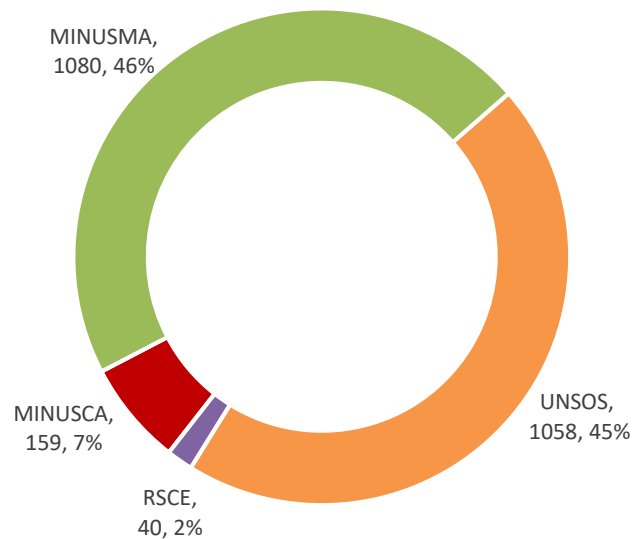
Participants by Gender

During the reporting period, 384 women were trained, representing 16% of the total number of trainees.

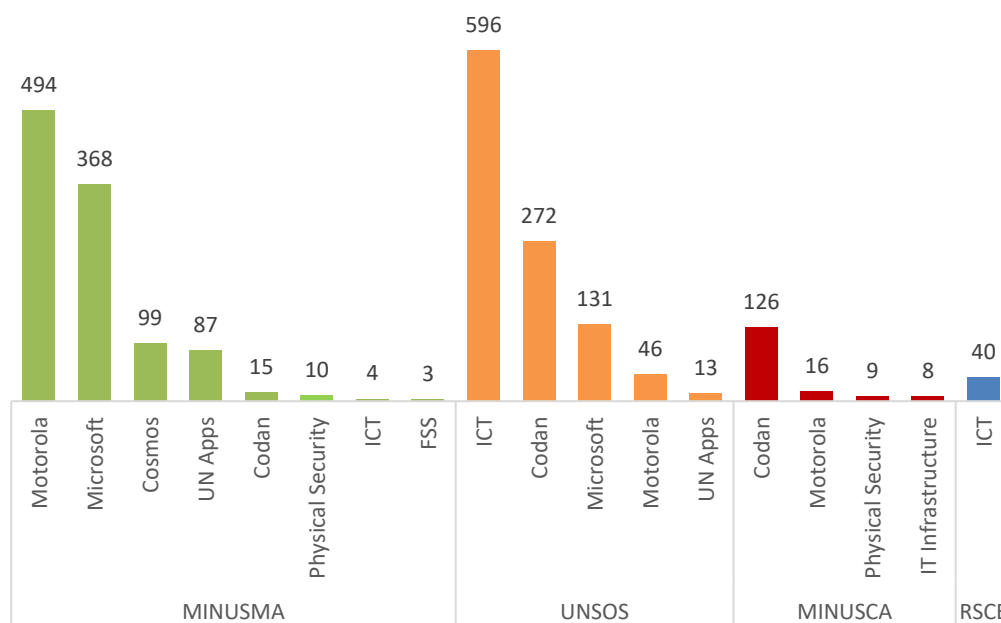Female 385 16%

Male 1,952 84%
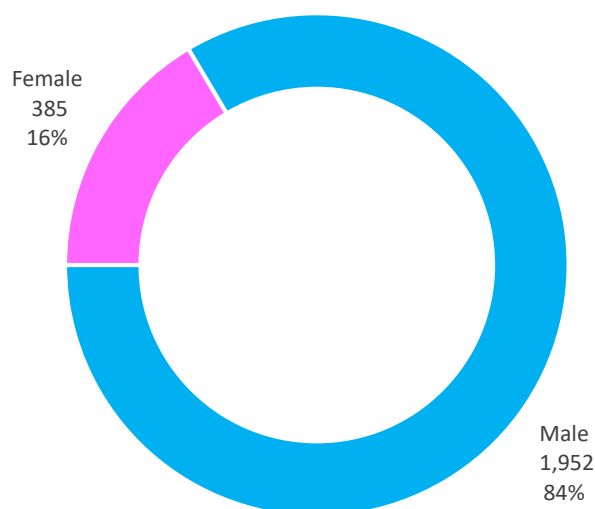
Course Frequency by Mission

Courses on Motorola had the highest occurrence in 2019 (57), followed by courses on Microsoft and UN Apps.
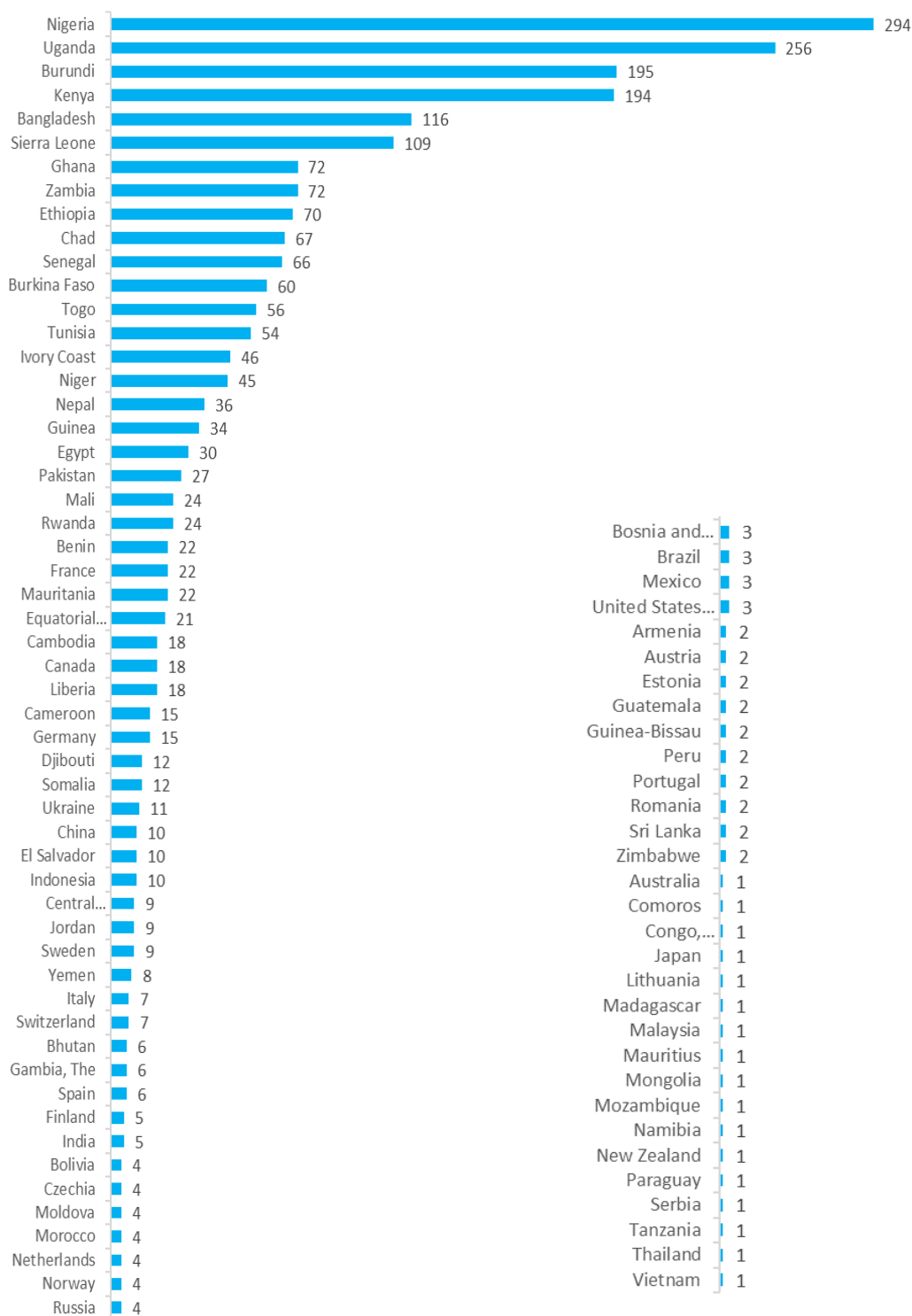
- **Course Frequency by Mission**

- **No. Participants by Mission & Course**

Training by TCCs/PCCs

The highest number of trainees came from Nigeria: 294 (MINUSMA), followed by Uganda: 256 (UNSOS) and Burundi: 195 (UNSOS).

Country	Trainees
Nigeria	294
Uganda	256
Burundi	195
Kenya	194
Bangladesh	116
Sierra Leone	109
Ghana	72
Zambia	72
Ethiopia	70
Chad	67
Senegal	66
Burkina Faso	60
Togo	56
Tunisia	54
Ivory Coast	46
Niger	45
Nepal	36
Guinea	34
Egypt	30
Pakistan	27
Mali	24
Rwanda	24
Benin	22
France	22
Mauritania	22
Equatorial...	21
Cambodia	18
Canada	18
Liberia	18
Cameroon	15
Germany	15
Djibouti	12
Somalia	12
Ukraine	11
China	10
El Salvador	10
Indonesia	10
Central...	9
Jordan	9
Sweden	9
Yemen	8
Italy	7
Switzerland	7
Bhutan	6
Gambia, The	6
Spain	6
Finland	5
India	5
Bolivia	4
Czechia	4
Moldova	4
Morocco	4
Netherlands	4
Norway	4
Russia	4

Country	Trainees
Bosnia and...	3
Brazil	3
Mexico	3
United States...	3
Armenia	2
Austria	2
Estonia	2
Guatemala	2
Guinea-Bissau	2
Peru	2
Portugal	2
Romania	2
Sri Lanka	2
Zimbabwe	2
Australia	1
Comoros	1
Congo,...	1
Japan	1
Lithuania	1
Madagascar	1
Malaysia	1
Mauritius	1
Mongolia	1
Mozambique	1
Namibia	1
New Zealand	1
Paraguay	1
Serbia	1
Tanzania	1
Thailand	1
Vietnam	1

2020 ACTIVITIES PLANNING

From 2020 and beyond, the UN Signals Academy is raising its level of ambition and further strengthen its operational capacity by:

- Establishing a "Mission Operational Centre Simulation Training Environment" (OPSCEN-STE) at Regional Service Centre Entebbe (RSCE) in partnership with Canada. This is a key element to enhance situational awareness in field operations. The facility is expected to be operational in Q2-2020.
- Expanding the course offer to include i.e. all basics of Information & Communications Technology, training on Intelligence – Surveillance - Reconnaissance (ISR) systems including micro-drones, Telehealth.

- Developing eLearning courses on basics of ICT, situational awareness tools, micro-drones and to make those courses accessible to Troop and Police Contributing Countries and Missions through two strategic partnerships with France and the NATO Communications & Information Academy.
- Offering training in other UN official languages, particularly in French language to satisfy African Union French-speaking Member States.
- Expand UNSA training audience to include ICT Senior Non-Commissioned Officers.
- Develop the circle of UNSA strategic partners.

APPENDIX 1 – BUDGET & FINANCE

Contribution from the Government of Japan (restricted)

Contribution from the Government of Denmark (restricted)

APPENDIX 2 – COMMUNICATION

UNSA Web portal

Department of Operational Support

https://operationalsupport.un.org/en/un-signals-academy

UNSA Social Media

Signals Academy can be followed at:

Flickr
www.flickr.com/photos/
un_signals_academy

Twitter
@un_signals

Facebook
@UNSignalsAcademy

Other United Nations' Media Platforms

RSCE (Regional Service Centre Entebbe)

https://rsce.unmissions.org/women-outreach-course-empowers-female-officers

OICT SharePoint Communications Website

https://unitednations.sharepoint.com/sites/OICT/SitePages/UNSA%20Women's%20Outreach.aspx

The UN Signals Academy thanks its Partnering Member States for their generous support to its activities in 2019
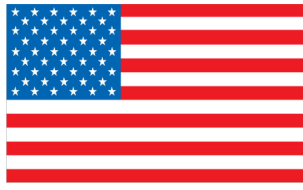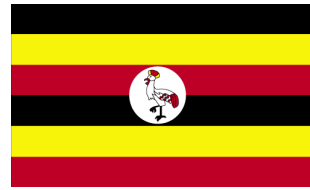
Japan
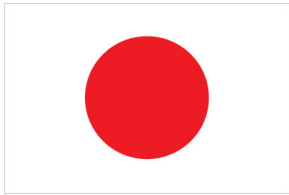
Denmark
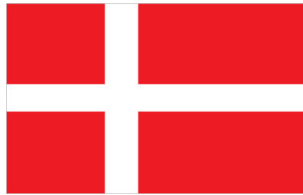
Canada

Germany

United States

Uganda

CREDITS

This document is produced by the United Nations Signals Academy (UNSA). UNSA wishes to acknowledge the contributions of its committed staff at headquarters and in the field in preparing this document.

For additional information, please contact:

Philippe Schifferling
Strategic Partnerships & Technology Solutions Officer
UN Signals Academy Programme Management Officer
Office of Information and Communications Technology (OICT), Operations Support Division (OSD),
United Nations, DC1 Building, Office #1052, New York, NY 10017, U.S.A.
Email: unsignalsacademy@un.org