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# IALA WWA CB & TRAINING ACTIVITIES IN AFRICA

AUGUST 2016



# IALA World Wide Academy Capacity Building and Training Activities in the African Region

## Purpose

To inform African Countries of the capacity building and training activity undertaken in the African region during 2015 and 2016.

## Background

The IALA World-Wide Academy delivers both training and capacity building activity in five key maritime regions, Africa being one of these. IALA delivers this activity in partnership with members of the Joint Capacity Building Group (principally the IMO and IHO) as part of the United Nations "Delivering As One" capacity building strategy.

IALA signed (December 2015) a Memorandum of Understanding with the Maritime Organisation for West and Centre Africa (MOWCA) covering training and capacity building and is working closely with several African and European States to deliver those actions in the most efficient and effective manner for the benefit of both inter-island and international navigational safety in African Region (France, Senegal, Côte d'Ivoire, Portugal, South Africa, Morocco, ...).

## Part 1 – Introduction to IALA

1. IALA was formed in 1957 as a technical association based in Paris to support the goals of those earlier conferences. The organisation today is based in St Germain-en-Laye, France. It has a consultative, recommendatory, and technical nature and is a not-for-profit and non-political international technical association with Non-Governmental Organisation (NGO) status. In May 2014 the IALA General Assembly passed a Resolution supporting the change from that of a NGO to that of an international intergovernmental organisation (IGO) - a major step in the evolution of IALA. The Government of France has commenced diplomatic activities to inform the Governments of Member States of this proposed evolution. It is planned that a Diplomatic Conference will be convened in Incheon, Republic of Korea, in 2018. If, as expected, the transition to IGO status is successful, IALA's core activities will not be affected.
2. These are to harmonise standards for Aids to Navigation (AtoN) systems worldwide; to facilitate the safe and efficient movement of shipping and to enhance the protection of the marine environment under the banner "Successful voyages, sustainable planet."
3. In particular it gathers together international AtoN experts to enable them to exchange and compare their experiences and achievements in technical committees and working groups. These committees develop common best practice in the form of Standards, Recommendations and Guidelines to ensure that mariners have AtoN which will meet their needs both now and in the future.
4. IALA encourages cooperation between nations to assist developing nations in establishing AtoN networks based on the degree of risk for the waterway concerned. Its activities contribute to a reduction in marine accidents; increased safety of life and property at sea and the protection of the marine environment. To focus these activities, IALA set two goals at its last Conference in 2014 which it plans to achieve by the time its 21st Conference is convened in 2026.  
**Goal 1:** Ensure that aids to navigation systems and related services, including e-Navigation, Vessel Traffic Services, and emerging technologies, are harmonised through international cooperation and the provision of standards.  
**Goal 2:** All coastal states have contributed to an efficient global network of aids to navigation and services for the safety of navigation, through capacity building and the sharing of expertise.

It is the capacity building activity in the African region that will be addressed in this paper.

## Part 2 – IALA Capacity Building and Training Strategy



1. African States, including MOWCA and SAGNEP members, will be well aware that all coastal States are obliged to provide safety of navigation services in accordance with SOLAS Chapter V. The principal SOLAS V regulations of relevance to IALA are Regulations 4 (Navigation Warnings); 12 (Vessel Traffic Services – VTS) and 13 (Establishment and Operation of AtoN services). Regulations 12 and 13 are based on a consideration of the volume of traffic and degree of risk in each State or region.
2. The IALA World-Wide Academy (IALA WWA) was established in 2012 to assist both developing nations and the least developed countries (IALA Target States) to recognise their international obligations related to SOLAS Regulations 4; 12 and 13 before assisting them to implement the necessary measures to provide Maritime Safety Information (MSI), VTS and AtoN services that met international standards. For VTS and AtoN services these standards should be based on the Recommendations and Guidelines published by IALA.
3. To harmonise international capacity building<sup>1</sup>, IALA adopted the four-stage capacity building process developed by the International Hydrographic Organisation (IHO). That is to make the national Competent Authorities (CA) in its Target States aware of their obligations (“Stage 1”) before encouraging them to invite the IALA WWA to conduct a “Stage 2” technical needs assessment mission to each State. Such a mission, normally conducted in one working week would produce a confidential report comprising a number of recommendations which the CA would then analyse (“Stage 3”) before deciding what action it would take to implement the selected recommendations (“Stage 4”). “Stage 2” and “Stage 3 and 4” follow-up missions are conducted by the IALA WWA at no cost to States on its target list. This is because the Academy is independently funded thanks to very generous contributions from its 2 main sponsors, the International Foundation of Aids to Navigation (IFAN) and the Republic of Korea, together with equally generous in-kind support from IALA Member States (France, ...) and organisations.
4. The target list in 2012 comprised 76 countries in 7 regions. “Stage 1” awareness missions in the first 3 years of IALA WWA’s operations made 930 individuals from 50 target States aware of their obligations relating to the provision of MSI, VTS and AtoN services. The first “Stage 2” mission was conducted in 2013; followed by 2, including Comoros in 2014 (conducted by the Dean and the IALA Senior Adviser). A review of IALA WWA activity was conducted at the end of 2014. This resulted in a reduction of IALA target States from 76 to 69 grouped in 5 regions. Four more “Stage 2” missions, including Cameroun (conducted by the Dean and the IALA Senior Adviser) and Côte d’Ivoire (conducted by the Dean and the Programme Manager of the IALA WWA) were conducted in 2015 and one nation was removed from the list. Three “Stage 2” missions were conducted in Africa since the beginning of the year 2016 (Liberia, Benin and Cape Verde) by the IALA Senior Adviser, with the support of a Portuguese VTS expert for Cape Verde, and a fourth will be conducted by the IALA Senior Adviser next week in Namibia. Four more target States are expected to be removed by the end of 2016. Details of capacity building and training activity in the African region are at Part 3 below. A current list of target States in the African region is shown in Annex A below.
5. Capacity building and training are inextricably combined. “The successful delivery of AtoN (and VTS) services depends upon competent and experienced personnel to implement and maintain such aids<sup>2</sup>”. It is considered essential that both AtoN and VTS Authorities are provided with sufficient staff, appropriately qualified, suitably trained and capable of performing the tasks required, taking into consideration the type of AtoN and/or VTS and the level of services to be provided. IALA defines international standards for personnel in charge of both VTS and AtoN implementation and maintenance<sup>3</sup>.
6. Training in AtoN service provision, including VTS, is vital to “the safe and efficient movement of shipping”. Both ISO 9001.6.2 and IALA place considerable emphasis on competency (see definition at Annex C). Certification of competency to international standards in both AtoN and VTS is achieved via IALA model courses. There are four categories of VTS training and two levels for AtoN training (“Level 1” applies to AtoN managers and “Level 2” to AtoN technicians<sup>4</sup>).
7. First delivery of distance learning for L1 AtoN Manager Training has been organised, and under the train the trainer principle, arrangements for participation to a pilot scheme have been made with UK.
8. Apart from an annual risk management course, IALA does not generally deliver training itself. Rather it encourages and facilitates its National Member to accredit either regional or national training organisations to deliver approved

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<sup>1</sup> A definition of “capacity building” and other definitions are at Annex C to this report

<sup>2</sup> See IALA Recommendation E-141

<sup>3</sup> VTS and AtoN training standards are set out in IALA Recommendation V-103 and E-141 respectively.

<sup>4</sup> See IALA model courses V-103/1 – V-103/4 for VTS syllabi and E-141/1; IALA WWA.L2.0 for AtoN syllabi



VTS and AtoN training based on the suite of model courses published on the IALA website from which the relevant syllabi can be downloaded free of charge. A list of current Accredited Training Organisations in the African region is at Annex B to this paper.

9. IALA does not accredit training organisations or courses conducted by other authorities or academies. Only Competent Authorities of IALA National Members can accredit Training Organisations to deliver approved IALA Model Courses. The IALA WWA is available to facilitate the accreditation process if requested to do so by a Competent Authority<sup>5</sup>.

## Part 3 – Review of IALA Capacity Building and Training in the African Region

### 1. Generalities

- a. Regular participation by IALA as an observer at the East Atlantic Hydrographic Commission (EAHC) and the South Africa and Islands Hydrographic Commission (SAIHC) meetings provided an ideal opportunity for follow-up “awareness” briefings.
- b. The provision of both VTS and AtoN services should be based on a formal analysis of maritime traffic patterns and risk. The same applies to the provision of hydrographic services. One meetings between the IALA WWA and SHOM explored how their technical assessments could be taken further to maximise effectiveness.

### 2. Capacity Building

- a. The first “Stage 1” capacity building activity in the African region was delivered in Cape Town, South Africa in June 2012 back-to-back with the 3<sup>rd</sup> Meeting of the Regional Co-operation Group on Safety of Navigation and Marine Environment Protection (SAGNEP).
- b. Joint International Maritime Organization (IMO)/IHO and IALA safety of navigation seminars have been delivered in Nouakchott (Mauritania) in 2013 and Accra (Ghana) in 2014 and the Aids to navigation and maritime traffic monitoring Workshop organised with MOWCA in Dakar (Senegal) back to back with the 61<sup>st</sup> IALA Council were attended by participants from many African States, including MOWCA and SAGNEP members. The active partnership between IMO, IALA and her sister organisation the IHO, provides a very positive example of the United Nations “Delivering As One” capacity building strategy.
- c. An Awareness seminar on aids to navigation, organised by IALA WWA and the Portuguese Lighthouse Authority, dedicated to Portuguese speaking countries (Angola, Cape Verde, Guinea Bissau, Mozambique, Sao Tome & Principe, Timor Leste and Brazil) has been delivered 2-3 May 2016 in Lisbon, Portugal, on the same issues so that capacity building activity in African Portuguese speaking countries could be improved.
- d. Morocco, with the support of IALA, has been organising (Tanger, Morocco, 25-27 May 2016) a three-day Seminar 1<sup>st</sup> “Journées Techniques Portuaires et Maritimes”, allowing to deliver awareness information.
- e. “Stage 2” capacity building Needs Assessment missions has been delivered by IALA WWA experts:
  - i. Comoros in 2014, conducted by the Dean and the IALA Senior Adviser
  - ii. Cameroun (conducted by the Dean and the IALA Senior Adviser) and Côte d’Ivoire (conducted by the Dean and the Programme Manager of the IALA WWA) in 2015
  - iii. Liberia (conducted by the Dean), Benin (conducted by the IALA senior Adviser) and Cape Verde (conducted by the IALA Senior Adviser and a Portuguese VTS expert for Cape Verde. The next one will be conducted by the IALA Senior Adviser next week in Namibia.
- f. The IALA Senior Adviser is working with Comoros and Cameroun to prepare “Stage 3&4” follow-up missions. Appropriate actions to implement the recommendations made in the IALA “Stage 2” mission report have to be taken.

This will leave 16 potential “Stage 2” missions to be completed in the African region before the end of IALA’s Strategic Goal target of 2026. It is hoped that the MOWCA and SAGNEP membership will work with IALA to encourage those States to invite the IALA WWA to conduct such missions which, it will be remembered, are free-of-charge to the Target States.

### 3. Training

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<sup>5</sup> See IALA Guideline 1014 and 1100 for the training and certification processes for VTS and AtoN respectively



- a. As part of its training Strategy, IALA encourages African States to accredit training organisations to deliver approved training programmes based on IALA model courses.
  - i. There are in France two Accredited Training Organisations (ATOs) delivering VTS courses and one delivering AtoN courses.
  - ii. The IALA WWA Dean is working with the support of France (ENSM Marseille and GPM Marseille) to allow the Académie Régionale des Sciences et Techniques de la Mer (ARSTM) of Abidjan, a body part of MOWCA, to deliver operator VTS training. The aim is to organize VTS training in Africa instead of sending people to Europe.
  - iii. The IALA WWA Vice-Dean and the IALA Senior Adviser are supporting South Africa to accredit organisations delivering Level 1 and Level 2 AtoN training courses by 2017.
  - iv. Morocco has been making a proposal to conclude tripartite agreements with IALA WWA and African countries to deliver training courses

When operational, the Africa region will benefit at least of two (or three if Accra university join the project) ATOs offering “Level 1” AtoN courses for potential AtoN managers<sup>6</sup>. This should be a major achievement of considerable benefit to all coastal States in the African region.

- b. One representative of Comoros has been attending successfully the first “Level 1” AtoN manager course organised in 2014 by IALA WWA in IALA Headquarters.
- c. According to the MOU signed by IALA and France National Competent Authority (Direction des Affaires Maritimes) three weeks “Level 1” AtoN manager courses were held in France in September 2014, allowing 4 (Cameroon, Côte d’Ivoire, Gabon, Madagascar) participants from African French speaking countries to attend. All 4 participants passed the tests of competency and were awarded a certificate<sup>7</sup>.
- d. According to the up-dated MOU between IALA and France National Competent Authority (Direction des Affaires Maritimes), a second three weeks “Level 1” AtoN manager courses was held in France in September 2015, allowing 3 participants from African French speaking countries to attend. All 3 participants (Benin, Côte d’Ivoire, Guinea), passed the tests of competency and were awarded a certificate. As the 2015 course was interrupted during one week, the IALA WWA organised a week of visits (administrations, IALA industrial members) in France for the African participants to the course.
- e. Several of the larger African States have numbers of fully qualified VTS personnel but only a few AtoN managers are in possession of international certificates of competence bearing the IALA logo (one from Benin, Cameroun, Comoros, Gabon, Guinea, Madagascar, South Africa, two from Côte d’Ivoire and Kenya). The “Grandfather Clause” whereby Competent Authorities of IALA Member States could award such certificates to experienced personnel expired in late 2014. As the IALA WWA has been delivering its final “Level 1” AtoN manager course in mid-2016, 8 places have been reserved for participants from countries not on the IALA target list.
- f. According to the up-dated MOU between IALA and France National Competent Authority (Direction des Affaires Maritimes), a third three weeks “Level 1” AtoN manager courses will be held in France in from 26 September 2016 to 21 October 2016, allowing 6 participants from African French speaking countries (Djibouti, Gabon, Morocco, Guinea Bissau, Senegal, Togo) to attend, with no scholarship fee<sup>8</sup>. Thereafter potential AtoN managers of Authorities and AtoN service providers who wish to gain formal certification will need to participate on one of the “Level 1” courses mentioned above.

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<sup>6</sup> Spain, working with IALA, facilitates the delivery of “Level 1” AtoN manager training in Spanish in 2015. It is understood that such a course may be delivered in 2016, possible in Ecuador. The IALA website ([www.iala-aism.org](http://www.iala-aism.org)) will advertise it once finalised.

<sup>7</sup> These are shown in brackets for participants from IALA target States at Annex A.

<sup>8</sup> Information available on the IALA website ([www.iala-aism.org](http://www.iala-aism.org))



- g. Even if there has been no accreditation for Level 2 training courses, France has offer, without scholarship fee, to French speaking African technicians to attend 3 Level 2 courses, in November 2016. 7 have been attending two courses, and 4 the third one.
- h. The four-yearly IALA VTS symposium has been organised in Kuala Lumpur, Malaysia from 8 – 12 August 2016. This major event, which attracts the world’s VTS experts and IALA Industrial members providing VTS equipment has been an ideal opportunity for any African State, including MOWCA and SAGNEP members, to contribute to VTS development, update their knowledge or investigate new technology to install or upgrade VTS infrastructure. Full details can be found at [www.vts-symposium2016.my](http://www.vts-symposium2016.my).

## Part 4 - Conclusion

IALA is moving towards its stated aim of becoming an Inter-Governmental Organisation. It has clear goals to achieve before its 21st Conference in 2018. These include making the remaining 20 Target States in the African region aware of their international obligations under SOLAS Chapter V Regulations 12 and 13; conducting technical needs assessment mission to those States and facilitating a number of both VTS and AtoN training hubs in the African region.

IALA’s capacity building and training activity is delivered by the IALA World-Wide Academy; an integral, but mainly independently funded pillar of IALA. “Stage 1 to 4” missions are delivered free of charge to Target States. This could not have been achieved without the superb and generous support of its principal sponsors and in-kind contributions from its Member States and international organisations such as the IMO.

Close liaison with the IMO and IHO under the United Nations banner of “Delivering As One” and with organisations such as MOWCA and SAGNEP are facilitating the delivery of capacity building and training.

The IALA WWA came of age in 2015 and is now embarking on an ambitious programme to improve the safety of navigation in the African region. The support of established MOWCA and SAGNEP members to assist this programme is seen as key to its success.

## Recommendations

**It is recommended to SAIHC participants:**

- a) **Note this paper**
- b) **Encourage IALA Target States in African Region to request “Stage 2” technical needs assessment missions**
- c) **Encourage African States to join IALA, as National or Associated Members**



## Annex A: List of African Target States

Region 1 Africa	Target States - Total 20	High Level Meeting	Stage 1 – Awareness Seminar	Stage 2 – Needs Assessment Mission	Number of AtoN managers holding IALA certificates	Training facilitation
Region 1A Anglophone Africa (AA)	Angola					
	Cape Verde		2016	2016		
	Eritrea					
	The Gambia					
	Ghana		2014			
	Liberia			2016	1	
	Libya					
	Namibia			2016		
	Sao Tome & Principe					
	Seychelles					
	Somalia					
	Sudan					
Region 1B Afrique francophone (AF)	Congo (Dem. Republic of)					
	<b>Congo (Republic of)</b>					
	Equatorial Guinea		2016		1	
	Guinea-Bissau		2016		1	
	Madagascar				1	
	Mauritania		2013			
	<b>Morocco</b>				1	
Togo				1		
Other States	<b>Algeria</b>					
	<b>Benin</b>			2016	1	
	<b>Cameroon</b>			2013	1	
	Comoros			2014	1	
	<b>Côte d'Ivoire</b>	2015		2015	2	2016
	<b>Egypt</b>					
	<b>Djibouti</b>				1	
	<b>Gabon</b>				1, 1	
	<b>Guinea</b>					
	<b>Kenya</b>					
	Mauritius			2013	1	
	<b>Mozambique</b>		2016			
	<b>Nigeria</b>					
	<b>Senegal</b>		2015		1	
	<b>South Africa</b>		2012		1	2016
<b>Tanzania</b>						
<b>Tunisia</b>						



## Annex B: List of current Accredited Training Organisations in the African region

IALA V-103 VTS Training – Registry of Accredited Training Organisations The following Training Organisations have been accredited by their respective National Competent Authority to deliver Vessel Traffic Service training based on the procedure set out in IALA Recommendation V-103. Guidance on the accreditation and approval process can be found in IALA Guideline 1014. Amendments should be notified to the IALA World-Wide Academy [academy@iala-aism.org](mailto:academy@iala-aism.org) Valid

Area / Region	Training Institutes	Accreditation Authority	Courses	Date of Accreditation	Comments (to include ability to accept foreign students)
Algeria	L'Ecole Supérieure Navale de Tamentfoust Direction de la Marine Marchande et des Ports (Mr Benyelles Lotfi Abderrahim, Directeur) 1 rue Ibn Badis El Mouiz (ex. Poirson) El Biar -Alger Tel: (213) 021 92 98 81 Fax: (213) 021 92 30 46 Email: <a href="mailto:Benyelles@ministeretransports.gov.dz">Benyelles@ministeretransports.gov.dz</a>		V-103/1 on Vessel Traffic Services Operator Training V-103/2 on Vessel Traffic Services Supervisor Training	28 September 2014  28 September 2014	
France	L'Ecole Nationale de la sécurité de la mer 38, rue Gabriel Péri BP 88705 – 44187 NANTES cedex 4 L'Ecole Nationale Supérieure Maritime 39 avenue du Corail CS 50040 – 13285 MARSEILLE cedex 8	Ministère de l'Écologie, du Développement durable et de l'Énergie	VTS Operator Basic Training V-103/1 VTS Operator Basic Training V-103/1 VTS Supervisor Training V-103/2	7 June 2013 valid until 6 June 2018 4 November 2014 Valid until 4 November 2016	
South Africa	School of Ports Transnet National Ports Authority Suite C109, 20 Langeberg Road, Durban, 4001 PO Box 1027, Durban, 4000 Gengan Pillay Senior Marine Facilitator: Pilots +27 31 361 6298 +27 31 361 6366 Cell+27 0837848466 e-mail: <a href="mailto:Gengan.pillay@transnet.net">Gengan.pillay@transnet.net</a>	SAMSA	VTS Operator V-103/1	Issued 1 Dec 2009 Expires 30 November 2012.	TNPA To rule on this issue.

IALA WWA E-141 AtoN Training – Registry of Accredited Training Organisations The following Training Organisations have been accredited by their respective National Competent Authority to deliver AtoN training based on the procedure set out in IALA Recommendation E-141. Guidance on the accreditation and approval process can be found in IALA Guideline 1100. Amendments should be notified to the IALA World-Wide Academy Programme Manager: [academy@iala-aism.org](mailto:academy@iala-aism.org) The IALA WWA is working with a number of IALA Member States to facilitate the delivery of AtoN training. For further information or advice, please contact the Academy at the above email address.

Area / Region	Training Institutes	Accreditation Authority	Courses	Date of Accreditation	Comments (to include ability to accept foreign students)
International	IALA World-Wide Academy 10 rue des Gaudines 78100 Saint Germain en Laye France <a href="http://www.iala-aism.org">www.iala-aism.org</a>	IALA Council	E-141/1 AtoN Manager Course IALA WWA.L1.3 IALA Risk Management Toolbox IALA WWA.L1.4 Introduction to GNSS and eNavigation	December 2012 Valid: until further notice May 2013 Valid: until further notice December 2013 Valid: until further notice	Delivered by The Academy or by another ATO with Academy facilitation. Any nationality accept subject to good understanding of English Annual event delivered in English Delivered



					by The Academy or by another ATO with Academy facilitation. Any nationality accept subject to good understanding of English
France	France Le Centre de Valorisation des Ressources Humaines (CVRH) 25 rue du Douet-Garnier BP 23606 – 44036 NANTES Cedex 01	Ministère de l'Écologie, du Développement durable et de l'Énergie : Direction des affaires maritimes Grande Arche - Paroi sud 92055 – La Défense cedex	E-141/1 AtoN Manager Course	16 July 2014 valid until 15 July 2019 subject to periodic verification	Open to French speaking foreign students on a case by case basis
Portugal	Núcleo de Formação de Faroleiros Escola de Autoridade Marítima ETNA – Edifício do DPE Alfeite 2810-001 Almada Portugal	Direcção De Faróis Avenida Marginal 2770-210 Paço de Arcos Portugal	IALA WWA.L2.0 AtoN Level 2 Technician training course	16 December 2014 Valid until 31 December 2017	
Spain	Spain Area de Ayudas a la Navegación Marítima Puertos del Estado Avda. Del Partenón, 10 Campo de las Naciones 28042 Madrid Spain	MEDITERRÁNEO SEÑALES MARÍTIMAS GMV	E-141/1 AtoN Manager Course IALA WWA.L2.0 Selected AtoN technician courses IALA WWA.L2.0 Selected AtoN technician courses 6	October 2014 valid until further notice 31 July 2015, valid until further notice 16 March 2015, valid until further notice	



## Annex C: Definition of “capacity building” and other definitions

**Capacity Building** is: the development and strengthening of human and institutional resources. AtoN authorities in developing countries are obliged to deliver AtoN services, but sometime lack of capacity to do so. The Academy actively facilitates that process through technical missions and training events.

**Competency** is: a demonstrated availability to apply knowledge and skills.

**Accreditation** is: a process whereby the Competent Authority or an authority designated and approved by the CA, grants recognition to a training organisation for demonstrated ability to meet predetermined criteria for established standards. Once accreditation has been granted, the training organisation is designated as an Accredited Training Organisation (ATO).

**Approval** is: the result of completing successfully the quality assurance process under which a training course is assessed to ensure that the IALA standards are set. The Accreditation process is for the training organisation and Approved is for each training course conducted by the training organisation.



10, rue des Gaudines - 78100 Saint Germain en Laye, France  
Tél. +33 (0)1 34 51 70 01 - Fax +33 (0)1 34 51 82 05 - [contact@iala-aism.org](mailto:contact@iala-aism.org)  
[www.iala-aism.org](http://www.iala-aism.org)

International Association of Marine Aids to Navigation and Lighthouse Authorities  
Association Internationale de Signalisation Maritime