

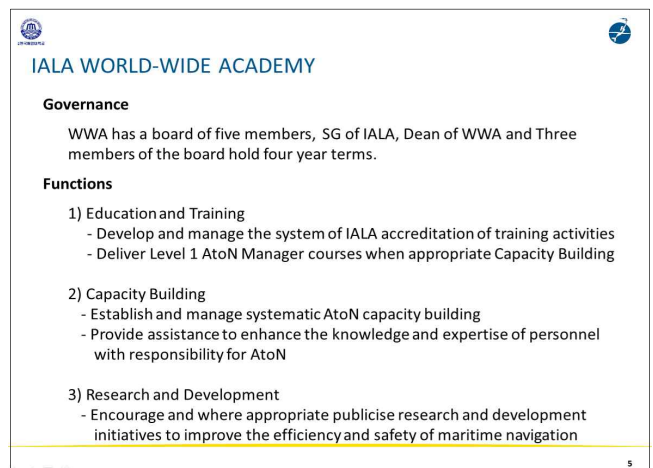
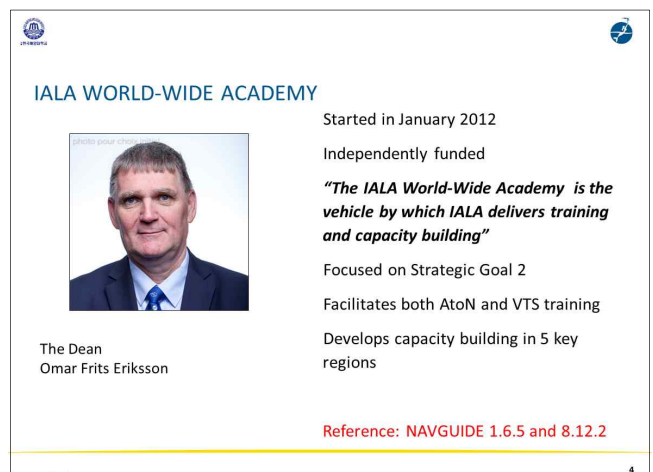
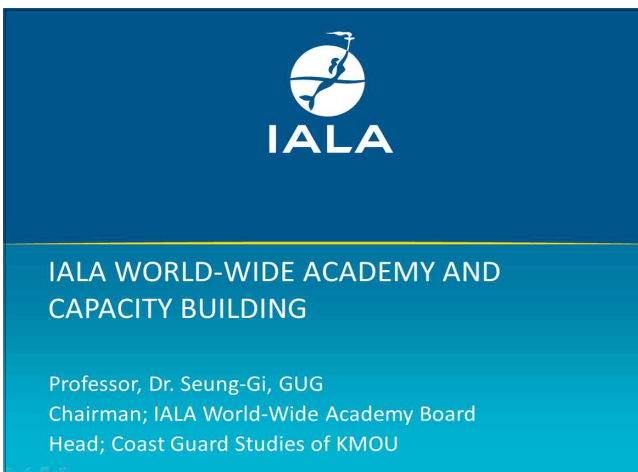
IALA World-Wide Academy and Capacity Building

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요 약 : 한국해양대학교는 IALA WWA에서 인증 받은 Level 1 (AtoN Manager) 교육기관으로 개도국 훈련을 분담하고 있다. “항로표지 전문가 및 글로벌 리더 양성”이라는 교육목표를 가지고 개도국을 위한 교육프로그램을 구성하였으며, IALA WWA 모델코스를 바탕으로 초청연수 교재를 개발하였다. 2017년 7월 한 달 간 아시아 태평양 지역의 항로표지 관리자 공무원을 대상으로 초청연수(역량강화)을 시행하였으며 초청 연수 종료 후 연수생을 대상으로 설문조사를 시행하고 분석한 결과 항로표지에 관한 전문지식이 향상되었고 연수에 대한 만족도도 높게 나타났다. 한국해양대학교는 지속적인 항로표지교육을 실시하여 주변 개도국의 해양안전과 해양경쟁력을 발전시키는데 이바지할 계획이다.

핵심용어 : IALA WWA, Capacity Building, 역량강화, IALA WWA Level 1, AtoN Manager, Navigation Safety






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Why We Need WWA?

- To help National Authorities develop, maintain, and improve AtoN systems.**
 - Hosted by independent institutions (such as Korea Maritime and Ocean University) around the world
 - All course hosts abide by the same standard as outlined in the Model Course.
 - WWA can certify AtoN related personnel more economically than sending students to a central educational institute in Europe.
- To help National Authorities build capacity**
 - To meet or exceed their obligations as laid out in the various international Conventions.


6







Capacity Building

Capacity Building is “the process of developing and strengthening human and institutional resources and capabilities”

AtoN Competent Authorities in developing countries are **obliged** to deliver AtoN services, but sometime lack the capacity to do so. The Academy actively facilitates that process through technical **missions, reviews** and **training** events


10

The Academy and Training

Training deliverables:



VTS courses – V-103 series
Aids to Navigation courses E-141 series

- **E141/1 – Level 1 AtoN Managers**
- E141/2 – Obligations of Senior Management in National **Competent Authorities**
- IALA WWA.L2.0 – Level 2 Technicians

Annual Risk Management Seminars (IALA WWA.L1.3)
Annual GNSS and e-Navigation course (IALA WWA.L1.4)

Generally delivered by Accredited Training Organisations – ex. **KMOU**



7





Capacity Building

To assist “Target States” and others with such needs, the Academy will:

- **Raise the awareness of higher level decision makers** in Target States on their obligations as defined in international conventions;
- Conduct technical needs assessment and other missions to Target States and others in need;
- Conduct follow-up activities to such States to review progress with the implementation of the recommendations contained in Academy mission reports;
- Participate proactively in International Maritime Organizations Technical Cooperation committee and the **Joint Capacity Building Group activities**;
- **Cooperate with regional organisations** engaged in capacity building activities;
- Develop regional strategies for advancing the work of the Academy in each of its continental target regions, beginning with Africa;
- **Sponsor individuals to attend model courses**, IALA committee meetings and other relevant events.


11

2. CAPACITY BUILDING


9




Target States 2017

December 2016

Degree of Need	Africa	Europe	Asia	Pacific	Americas	Total
Smallest need	1	12	7	1	6	27
Smaller need	10	16	13	8	13	60
Some need	6	2	3	2	5	18
Greater need	7	1	2	5	7	22
Greatest Need	14	2	7	0	4	27

If a State is on the target list, it has yet to demonstrate its capability to meet its obligations under SOLAS Chapter V so that MSI and AtoN services are delivered to full international standards.

KMOU, accredited as level 1 training institute by IALA WWA, has gave educational support to developing countries in Asia & Pacific from 2nd July to 29th July, 2017.


12

IALA WWA Level 1 in Republic of Korea

I. Outline





- Background/Purpose :**
 - The capability building program for developing country in year 2017 has been set up according to MoU of Korea-IALA (14.12) to strengthen international AtoN cooperation and ROD made in year 2017.
 - The AtoN Level 1 Course was set in order to build capability for government officials in developing countries, and enhance maritime safety and competitiveness.
- Date/Location :** 2nd July ~ 29th July 2017 / KMOU (Busan), KAN (Yeosu)
- Host/Supervision :** MOF / IALA WWA, KMOU, KAN
- Attendees :** 9 (Indonesia, Tuvalu, Myanmar, Vietnam, Kiribati, Vanuatu, Sri Lanka, Papua New Guinea), 3 (Korea)
- Course Supervisor and Assessor :** Prof., Ph.D. Seung-Gi, GUG; Chairman of IALA WWA Board
- Schedule**

Week	Main Topic
1 st Week	International Organization, Law of the Seas, Nautical Knowledge, PNT, Meteorology and Tests
2 nd Week	Visual AtoN, Radio AtoN, VTS
3 rd Week	VTS, Power Supply System, Storage Battery, Remote Monitoring and Control, Sound Signals, Tide Signals, e- Navigator, and Tests
4 th Week	AtoN Provision, Design and Management, Maintenance, Contracts, Environment, History, Human Resources and Test,

13





IV. Team Building and Culture Tour

- Team Building (Module 3B - Maintenance, Contracts, Environment, Historic Lighthouses and Human Resources)**
 - Goal : The team will share IALA and WWA's shared goal and will work hard together to achieve such and successfully finish the education program
 - Details : Culture tour and Physical activities

Movie appreciation Yeongdo daeyeo opening ceremony Physical activities(Bowling) Luncheon

- Culture Tour**
 - Goal : International cultural exchange through Korean culture tour of attendees
 - Details : Visit to museum, cultural activities, Busan city tour










Visit to museum Visit to historic site Cultural activity Busan City Tour

22





II. Course Specifics

- Orientation**
 - Introduction of the course, Welcome speech of Hong-Yeol Jeong (Dean of academic affairs, KMOU), Young-Shin Kim (Director of Division of Aids to Navigation, MOF), Professor Seung-Gi, GUG (Course assessor and supervisor)

Orientation Welcome Speech Welcome Speech Group Photo

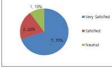
- Module 2A : Nautical Knowledge (General)**
 - Goal : Basic nautical vocabularies and understanding the use of paper charts and publications
 - Details : Acquiring nautical knowledge, navigation equipment training, how to use paper charts, publications and digital charts

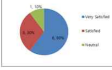
Nautical Knowledge Learning ECDIS Use of Charts Use of publications

14

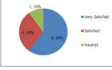
Course / lecturer evaluation : Every module's evaluation included a Neutral vote except for Module 3B, the reason is thought to be due to lecturer's lack of English communication skills and that too much information was dealt in the lecture.



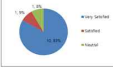
<3> International Organizations and Law of the Sea



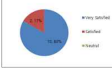
<2A> Nautical Knowledge (General)




<3B> Position, Navigation, Timing and Meteorology




<3A> AtoN Provision: Design and Management




<3B> Maintenance: Contracts, Environment, Historic Lighthouses and Human Resources



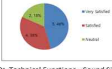
<4A> Technical Functions - Visual AtoN




<4B> Technical Functions - Radio AtoN



<4C> Technical Functions - VTS



<4D> Technical Functions - Sound Signals; Communications; e- Navigation; Tide Gauges; Structures; Remote Monitoring and Control






<5> Power Supply

26




III. Field Trip

- Yeong-do Lighthouse (Module 4A : Technical Functions - Visual AtoN)**
 - Goal : Understanding role of lighthouse as a visual AtoN, and study developed unmanned management system using integrated management system within manned lighthouse
 - Expected effects : Learn effective management of visual AtoN, and learn developed management system

Yeongdo Lighthouse Yeongdo Lighthouse Yeongdo Lighthouse

- Busan New Port VTS (Module 4C : Technical Functions - VTS)**
 - Goal : To learn how to gain safe and efficient marine traffic by using RADAR, VHF, AIS, and observe traffic trend of the coast and give related data for protection of marine environment
 - Expected effects : Enhanced capability of exchanging data between AtoN manager and vessels in control area by practical VTS affairs

Busan New Port VTS Busan New Port VTS Busan New Port VTS

20

2. Education achievement evaluation

- Exam were written (short or descriptive answers) tests. In total there were **3 test 170 questions**.
- Attendees scored **more than 50 points will pass**, and those who failed/retest with score of 40 points and above went through an oral test.
- 9 attendees (75%) completed the whole course**, 2 attendees partial completed course and 1 attendee failed to complete the course.

3. Problems and future improvements

Problems

- The lecture delivers more information than the textbook, which is an obstacle to self study.
- Some attendee had problem with understanding due to their insufficient English skills and knowledge of AtoN
- Some attendee was not satisfied with some Korean lecturers' way of delivering knowledge

Future improvements

- A general supplement of textbook is needed
- Systematic way of selecting attendee will be needed in the future including basic knowledge and English skills
- Training is needed for Korean lecturers for a better way of knowledge delivery
- Notice attendees that repeated revision and self-study is important so they study enough before the test

27