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### OBJECTIVE

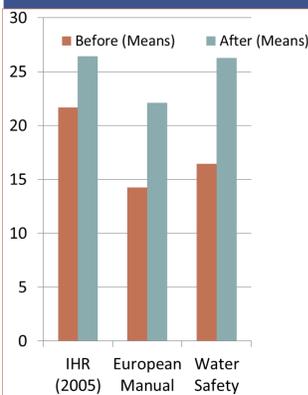
To increase port health staff and crew competencies on prevention, risk assessment, response to chemical, biological and radiological threats by training trainers within each EUMS and by delivering e-learning courses available to staff in all EUMS and companies operating in EU.

### METHODOLOGY

Methods for completing the objective include:

- Maintaining **pool of trainers** based on competency criteria
- Identifying **training needs**
- Defining **learning objectives** based on essential knowledge, skills, and attitudes required to perform job tasks for each target audience
- Defining **modes of delivery** (face to face, on the job, synchronous and asynchronous e-learning) for each training course
- Developing **training plans** (i.e. course syllabus, schedule, and outline)
- Preparing **training materials** for each training delivery mode
- Developing tools **for evaluating** reaction, learning, behaviour and results

### IMPACT EVALUATION & CONCLUSIONS



**Figure 1:** Declared improvement in ability to perform tasks before and after participating in the face-to-face training course

	% of improvement
IHR (2005)	21,96%
European Manual	55,09%
Water Safety	59,70%

- **Transferability:** 81% of participants in the face-to-face training courses contributed to knowledge transferability by organising local/national training courses, using SHIPSAN material, sharing learning outcomes with colleagues.
- **Networking:** Training courses facilitated professional networking of 53% of participants.
- **Webinars:** 99% of viewers of the 8 evaluated webinars would recommend the webinars to others. Majority of viewers evaluated highly all aspects (presenter, material and technology).
- **E-learning:** Almost 90% (17/19) of trainees that completed the e-learning course for PHO declared they will fully or partially use the new skills acquired to their day to day job.

**Competencies of authorities' staff and industry on prevention, control and response to health threats have been improved.**

### RESULTS

**Pool of trainers: 90 trainers from 20 countries** – Available to support national training courses

#### Face to face training courses

##### National level

**8 training courses in Bulgaria, Croatia, Greece, Ireland, Portugal, Slovenia, Spain, Nordic countries**

**Training Subjects:**

- The European Manual for hygiene standards and communicable disease surveillance, EU SHIPSAN Information System and IHR (2005) - issuance of Ship Sanitation Certificates (*Duration: 2 days/3 days*)
- Chemical safety- safe manipulation of potentially contaminated cargo with toxic chemicals (*Duration: 1-day*)

**Personnel Trained: 205 port health officers trained**

##### European level

**5 training course for port health officers and seafarers in Greece, Italy, Slovenia**

**5 one day train the trainers courses**

**Training Subjects:**

- The **European Manual for hygiene standards and communicable disease surveillance** and **EU SHIPSAN Information System** (*Duration: 3 days*)
- **Waterborne diseases prevention and control**, Water Safety Plans, Control measures for Legionnaires' disease prevention, water sampling techniques (*Duration: 3 days*)
- **International Health Regulations IHR (2005)** for lead inspectors (*Duration: 4 days*)
  - Issuance of SSCs by using the WHO Learning Programme
  - Training on chemical and radiological issues
  - Case study on management of events of Ebola Virus Disease on ships

**Personnel Trained:**

- **136 port health officers from 23 EUMS & 5 non EUMS** (Albania, Israel, Montenegro, Serbia, Turkey) • **106 seafarers**

**Training material (case studies, presentations, practical and theoretical exercises) available to all EUMS to organise national training courses**

#### E-learning

##### Asynchronous

**New e-learning for Port Health Officers**  
**Inspections of passenger ships according to the European Manual for Hygiene Standards and Communicable Disease Surveillance**

**Content**

- 7 modules presenting inspection techniques, practical examples with visual material and audio narration
- 16 hour asynchronous training course

**Users**

- 761 registered users (09/2010 – 08/2016)
- 363 new registered users (after 01/02/2013)
- 139 PHO registered to the new course

**New e-learning course for cruise industry**

**Trainers & seafarers certification, onboard e-learning modules (available online & offline), onboard face to face training by certified trainer and blended learning.**

##### Synchronous

**Webinar Series on health threats and maritime transport**

**11 webinars broadcasted**

**~ 1300 enrolled**

**>550 webinar viewers** (live and recorded)

**Topics**

- Ebola Virus Disease and maritime transport sector
- The art of inspection
- Water system microbiological physical control methods
- Water Safety Plan and Legionnaires' disease prevention and control on ships
- Dealing with chemical and radiological incidents on ships
- Occupational health in maritime transport
- State of the Art on health threats related to maritime transport
- The revised European Manual (2 webinars)
- The SHIPSAN ACT Information System (2 webinars)

**Register to the e-learning courses and to view recorded webinars at <http://elearning.shipsan.eu/>**

#### On the job

**104 port health officers from 43 ports in 16 EUMS and Turkey** received on the job training during pilot and routine inspections conducted in 2011, 2013, 2014, 2015 and 2016.

#### Ad hoc activities in response to PHEIC

- **Webinar on Ebola Virus Disease and maritime transport sector, April 2015.**
  - 97 participants
- **Case study on management of events of Ebola Virus Disease on ships in the face to face training course in Slovenia, June 2015.**
  - 35 participants
- **Presentation of SHIPSAN ACT Interim guidance on maritime transport and Zika virus disease in Luxemburg meeting organised by DG SANTE.**

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**Partners:** 32 partners from 24 EUMS, European and international institutions, shipping industry. **Advisory Board:** DG SANTE, CHAFAEA, ECDC, WHO, CDC-VSP. **Associated partners:** Regional Health Inspection-Varna, Bulgaria/Regional Health Inspection-Burgas, Bulgaria/Hamburg Port Health Center, Germany/Robert Koch-Institute, Germany/National School of Public Health, Greece/Directorate of Health, Centre for Health Security and Communication Diseases, Iceland/Health Service Executive, Ireland/Ministry of Health, Italy/Klaipeda Public Health Center, Lithuania/National Institute of Public Health, Slovenia/Instituto De Salud Carlos III, Spain/Public Health England, Centre for Radiation Chemical and Environmental Hazards, United Kingdom/Association of Port Health Authorities, United Kingdom. **Collaborating partners:** Ministry of Health, Austria/Federal Public Service of Health, Belgium/Ministry of Health and Social Welfare, Croatia/Ministry of Health, Cyprus/Centre of Maritime Health and Society, University of Southern Denmark/Health Board, Estonia/Ministry of Labour, Employment and Health, France/Minister for Health, the Elderly and Community Care, Malta/Municipal Health Services Rotterdam, Netherlands/National Institute for Health and the Environment, Netherlands/Norwegian Directorate of Health, Norway/Ministry of Health, Portugal/Medical University of Gdansk, Poland/Ministry of Health, Romania/Ministry of Health, social services and equality, Spain/Ministry of Transport, Construction and Regional Development of the Slovak Republic