



INTERNATIONAL MARITIME MEDICINE, A CHALLENGE TO JOINT UNIVERSITIES.

Experiences from Spain.

20 Years M.M.Postgraduate Courses Spanish-English



Professional
Associations



Universities



U
université
de bretagne
O
occidentale

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UCA / SEMM / IMHA / URV / UBO / UCV

History

1970-90 **Total quality concept** (Japan 5S-7H: client satisfaction)

Leadership, training participation, improvement)

Seafarers Health: ISM Maritime Health Programme In Spain:
Occ, Prev, M. Care, Emergencies

Patients' relation

Maritime Health Programmes



Management:
National & Int.
Resources:
Public / Private

Quality Standards
Service-Policy-Org

RMA: Telemedicine

Research projects / Meetings

Postgraduate training
Professional –Scientific

Doctors on board and in coastal Centers

Background

University Diplomas in Maritime Medicine

- La Laguna Tenerife University – in Spanish, 1989 U. Expert [en Técnicas Preventivas de Sanidad Marítima]
- France: from 1997 Université de Bretagne Occidentale (UBO) → [Agreement with Cadis University] It continues at present
 - 240 hours concentrated in 3 weeks in French for 2 years
 - Basic part : history, maritime medicine organisation, Rules & R
 - 3 options:
 - Médecine du travail maritime et portuaire: Occupational & Port M
 - Médecine embarquée: On board Medicine
 - Médecine d’urgences maritimes: Emergencies in Maritime,M.
- URV Tarragona University 2003 University Specialist 3 / 2008 Med, Marit. Master. Spanish and English versions, on line + practical
- UCA from 2009 Marit Health Master, Med Marit Specialist, Underwater & Nautical Sports Med.Expert, 2013 +Occup Marit Med Specialist, 2023 Master in Lifelong Learning in Maritime Health



International Background



IMHA participation in Maritime Medicine continuing education / postgraduate courses

IMHA Bylaws: Ch.2 art. 5 Activities: Encourage and facilitate education and training in maritime health initiatives

- **Workshops** (1998) ID-AIDS Antwerp ... (2003-04) Continuing Education, Barcelona ... Data bases, Brest; 2012 Training Tenerife; Research 2013 Brest
- ITF projects evaluation (1998 transl. SEMM Refresher e-course ...) → 2004 ICSW – SHIP project [**seafarers**]
- 1999 IMHA Intercountry training course on Maritime Occupational Health, Gdynia → conferences, practical training [**doctors**]



IMHA

IMHA participation in Maritime Medicine continuing education / postgraduate courses

- ISMH – 2003 Spain: Agreement SEMM – URV **University** – IMHA → **e-learning**, activities (2003-04-05-07-08 URV Tarragona, 2009...Cadiz)
- **International Projects: EU Network** Medicine (ECTS accreditation)
Proposal "Medmar" - Extension → WW



IMHA Quality Standards

Accreditation for clinics, staff, services - Assessment

ISMH – organisers NATIONAL ASSOCIATIONS-UNIVERSITIES SEMM-IMHA AGREEMENT

2003: co-organisers 7th. ISMH (Spain)

- **Tasks of SEMM (7): SEMM integrates the IMHA seminars in the activities of the symposium and arranges scientific accreditation or links to the University for an academic degree**
- **Task of IMHA (5): IMHA is responsible for the content, the lecturers ... of a Training Course on Maritime Medicine outside the symposium programme.**



IMHA WORKSHOPS: 2003

“Continuing Education” Barcelona →

MHA: International Recommendations

GENERAL NETWORK: “MEDINE” / PREPARE ONE SPECIFIC: “MEDMAR”

P- Countries	Courses / Planning	R-University
-EMA (BE)	EU.E. Recognition / EPOweb	P
-----		R
- UK, Esthonia, Finland ...	Authorised doctors for Medical Examinations	O
- France, Spain, Croatia ...	Academic Training	J
-----	-- Accreditation system --	E
- Philippines,	Special needs identification	C
- Venezuela ...	worldwide	T S

IMHA WORKSHOPS: 2004 “Collection and Validation of data”, Brest

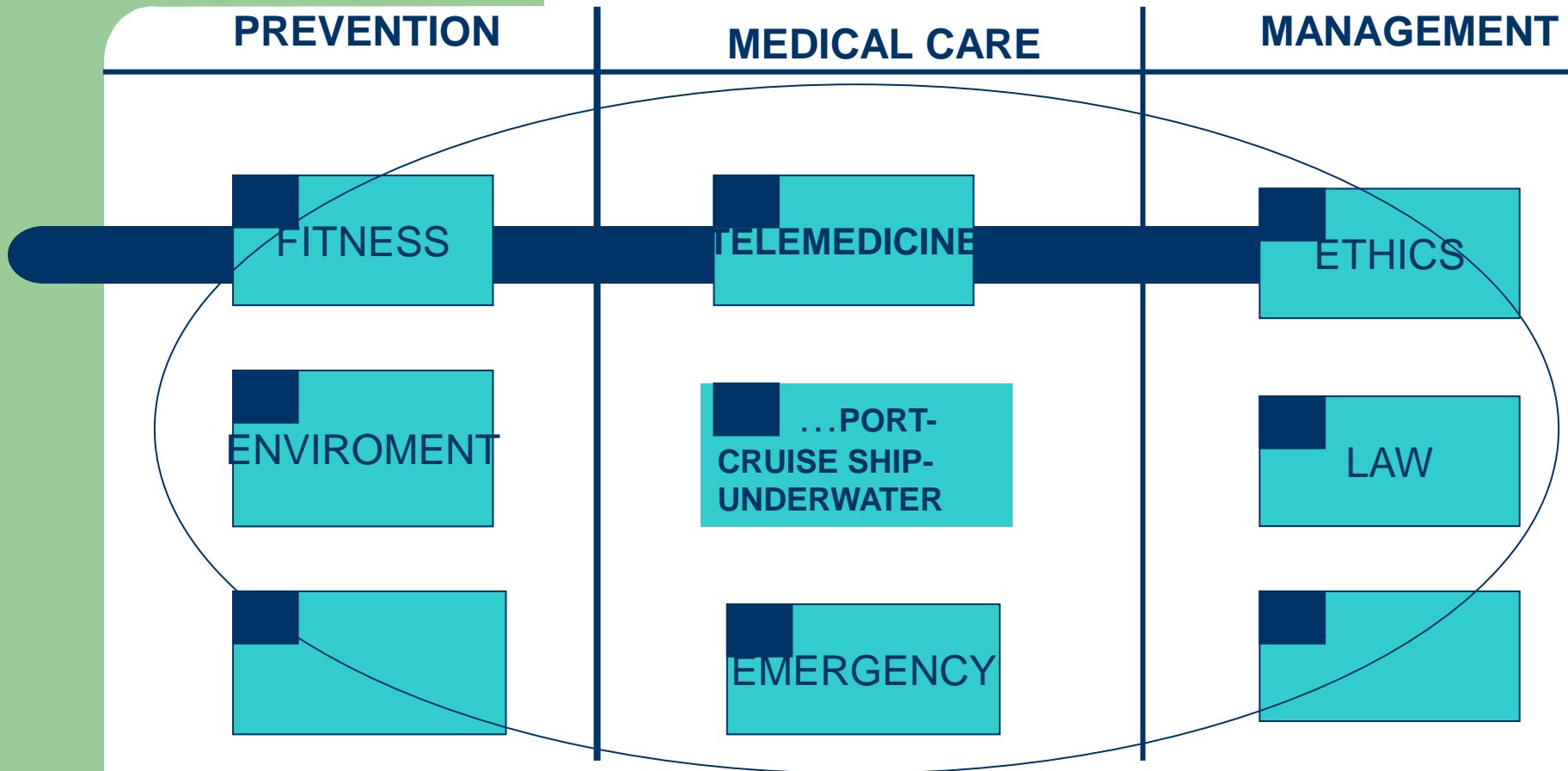


PREPARATION OF AN SPECIFIC PROJECT FOR POSTG. ED: “MEDMAR”

Main objectives are:

- To define main **competences for maritime medicine** (medical examinations, on board medicine, medical care and emergencies, radio-medical advice ...)
- **Data bases** in maritime health
- **Common contents in the training of maritime medicine** in Europe (European master).

Method to joint efforts:



DEGREE



MASTER (SEVERAL UNIVERSITIES TOGETHER)

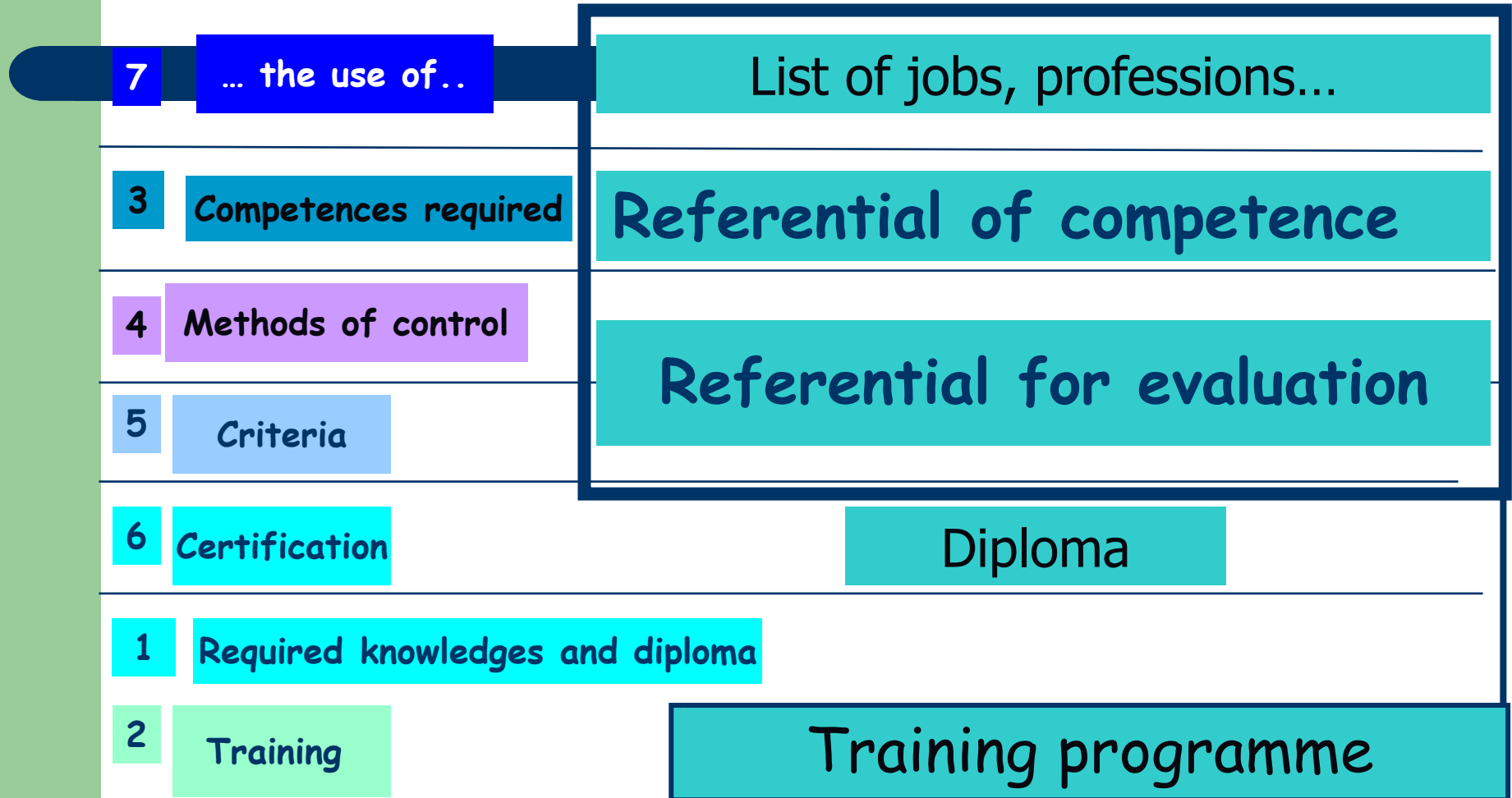
TO WORK IN AN ADAPTED NET FOR COMPETENCES



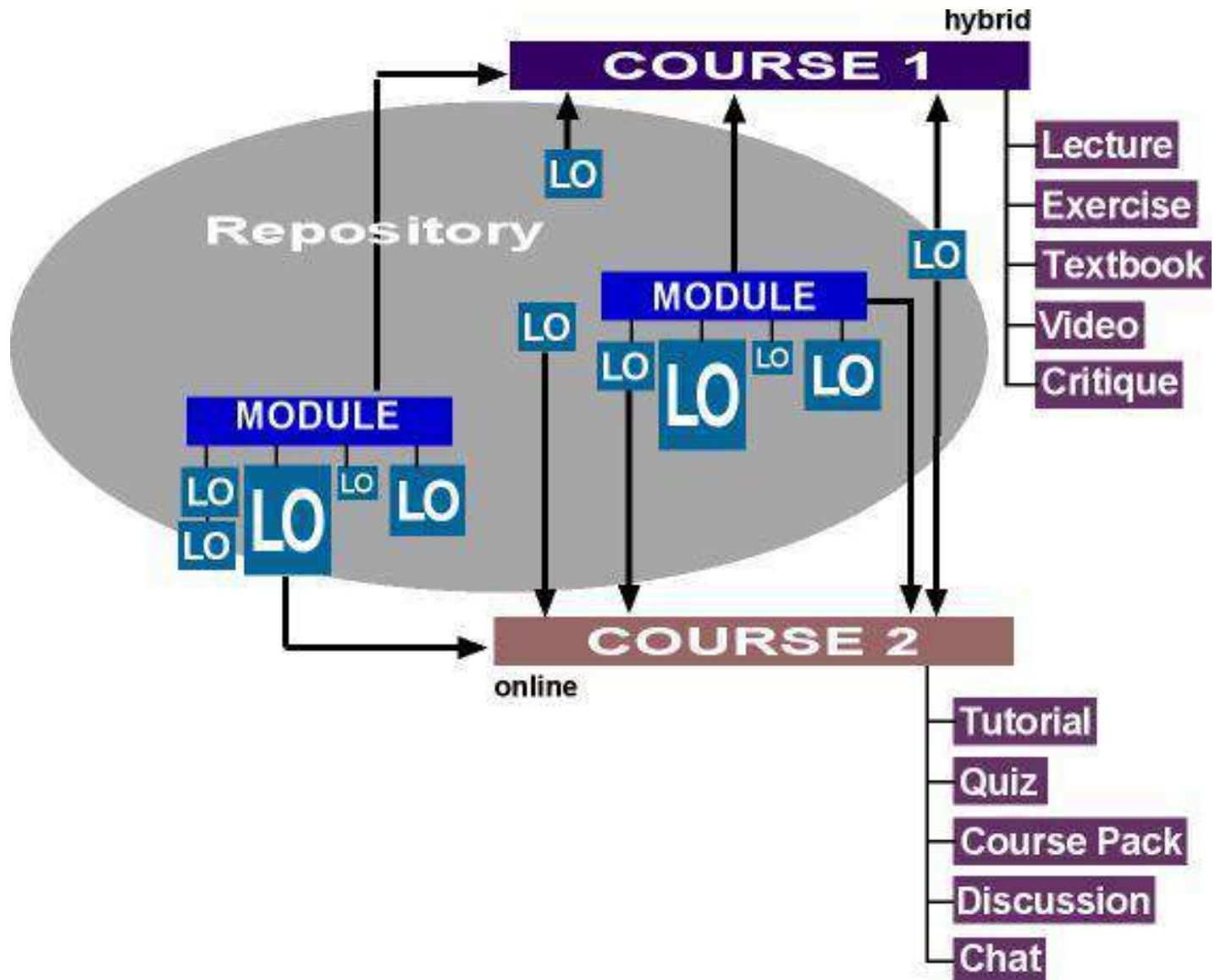
MINIMUM GENERAL

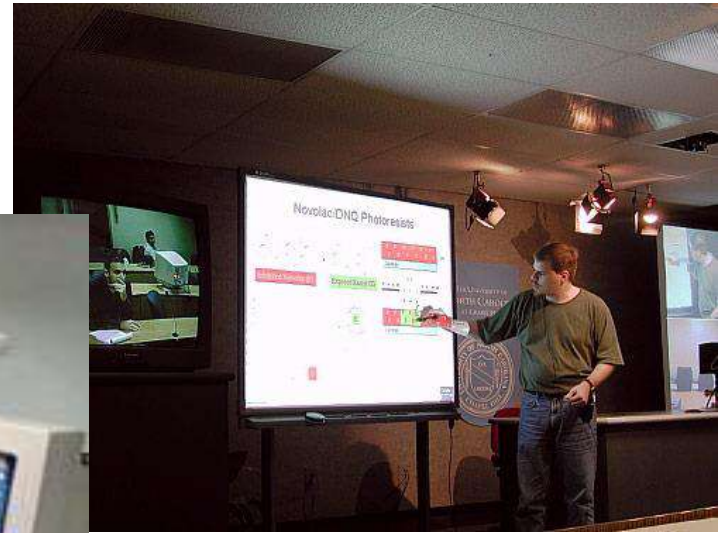
The ideal process to build a new training

European project for transparency of vocational qualifications and certifications (Bologna process)



Several resources

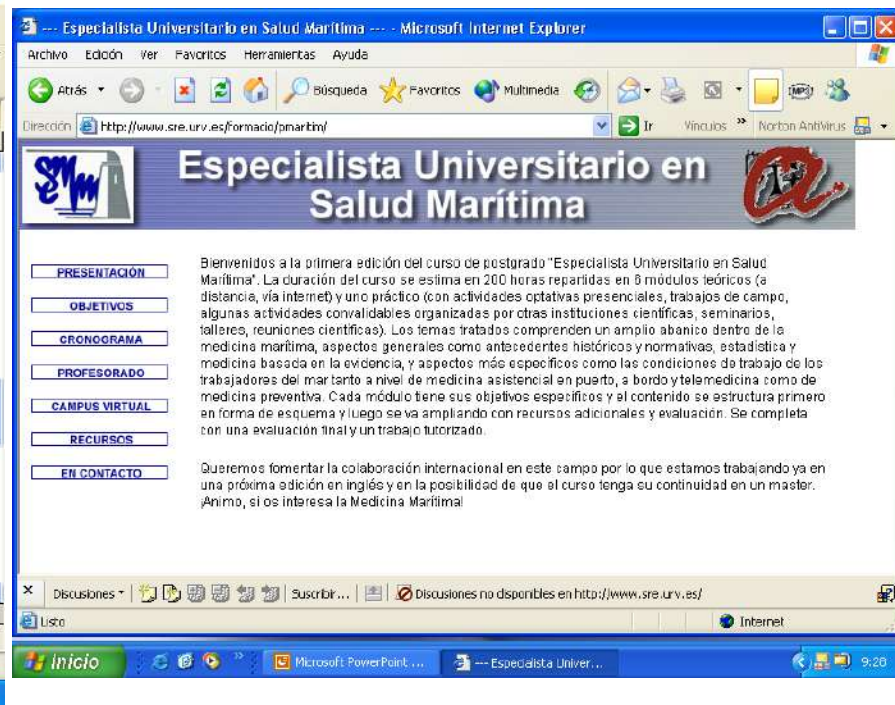
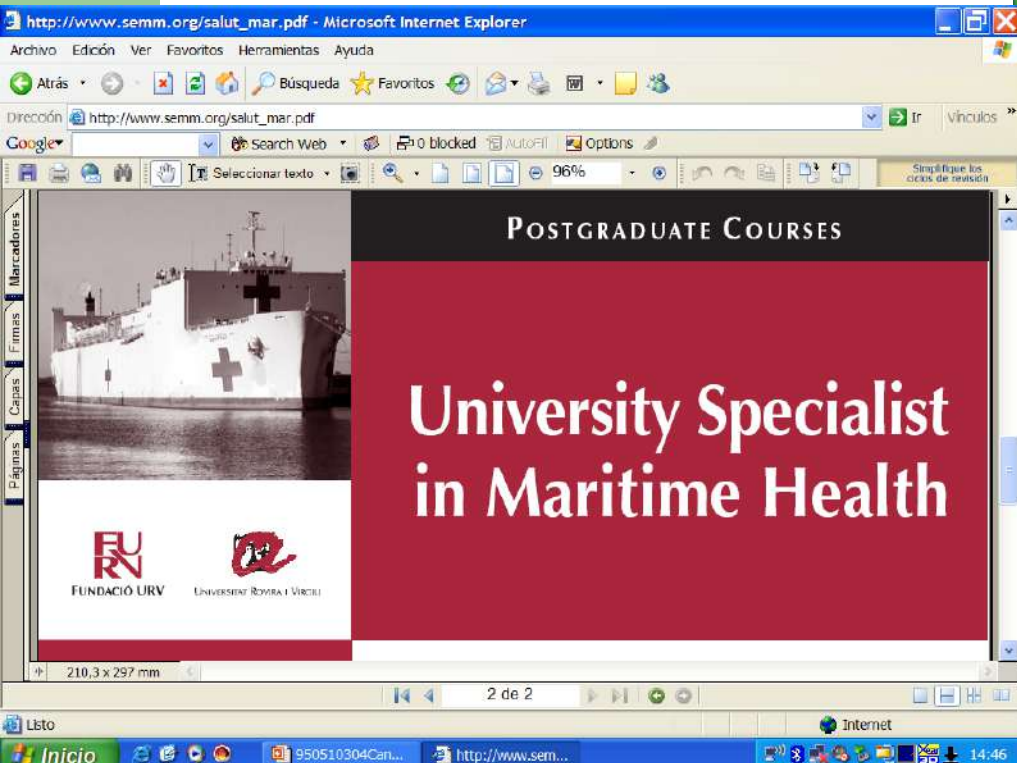




Results - in Spain:

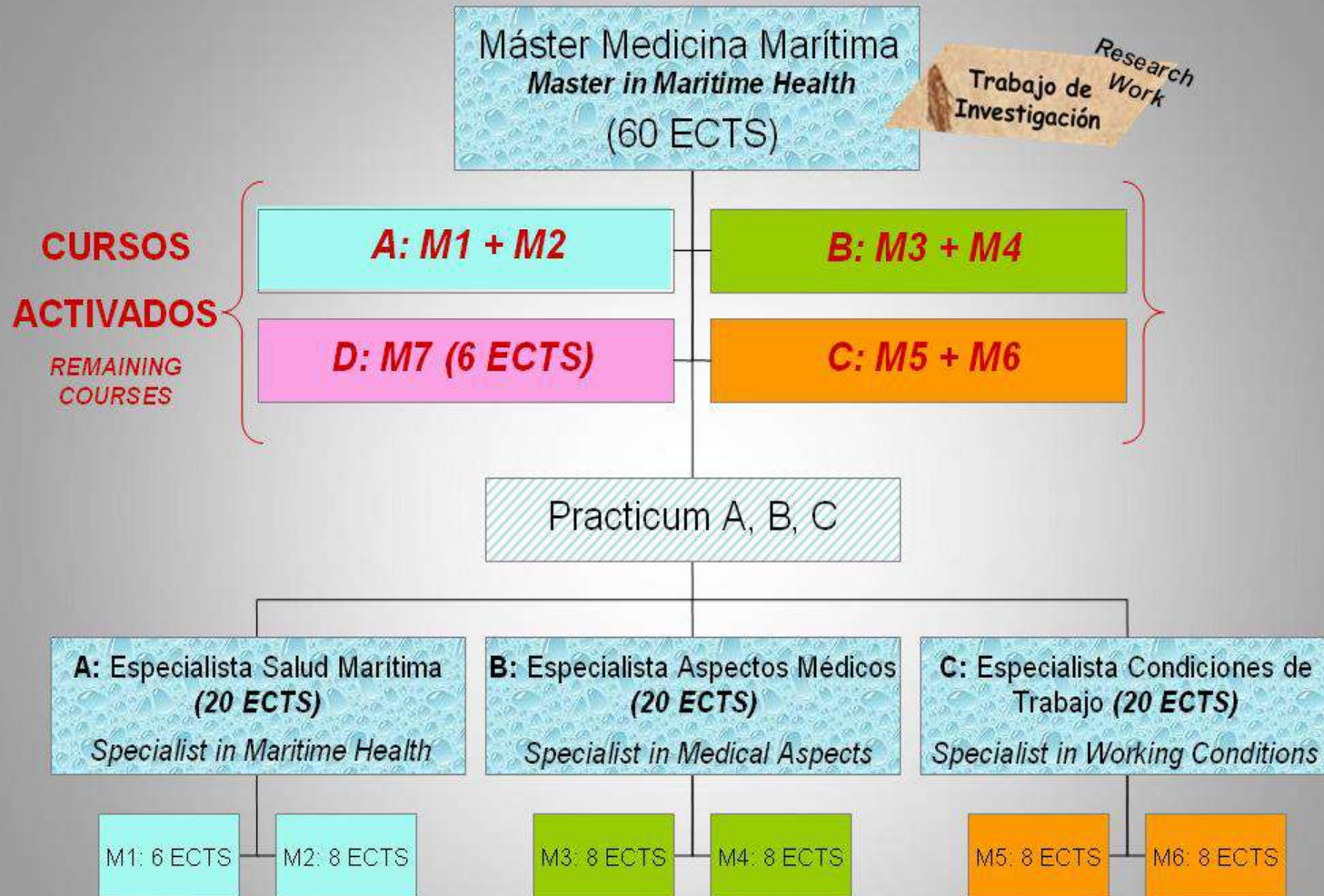
From 2003 to 2008
(in Spanish, next per modules
in English, – 7 modules)

Starting Distance learning: 140 h
+ 60 professional training → Master



Postgrado FURV: Máster en Medicina Marítima 2007-08

CONVENIO SEMM – IMHA, otras Univ. UMC Venezuela ...



Cadiz University: Master in Maritime Health from 2009

SEMM – IMHA, UBO agreement ...



Organization:



- For **professional activities** the Spanish Society of Maritime Medicine (SEMM) and the International Maritime Health Association (IMHA) provide them in the frame of conferences, workshops, seminars, congresses and symposia, which can supply **recognition** of 5 credits
- Besides, **teaching staff** from Spanish (ULL Tenerife, UCA Cadiz, UB Barcelona, UCM Madrid & Murcia) and foreign (UBO France, SDU Denmark, GU Sweden, UA Belgium, UC Italy, UMC Venezuela...) universities have been incorporated.

For more ...

information: semm@semm.org

Registration:

Objectives:

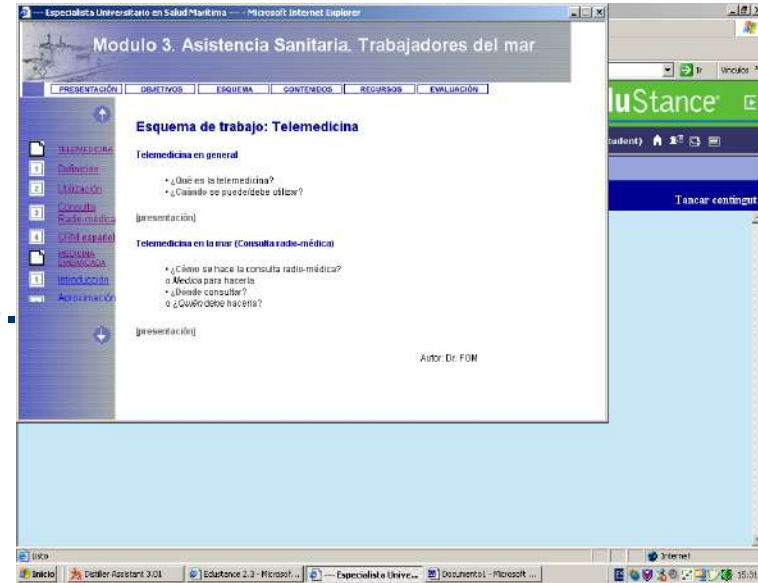
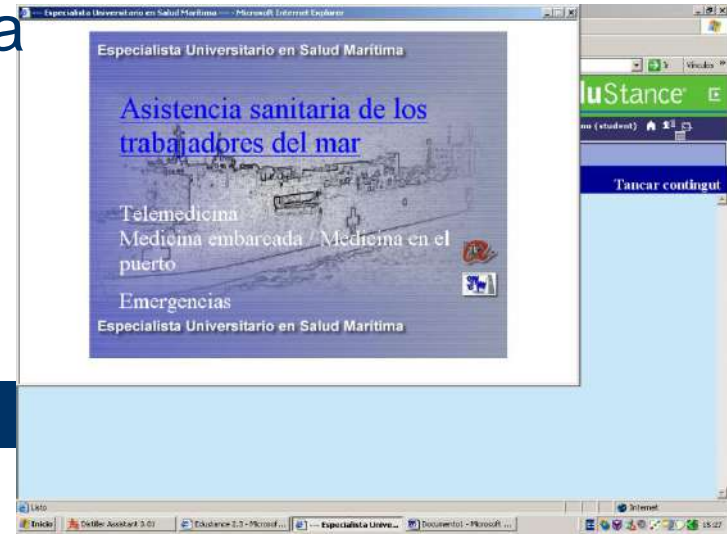
- To introduce basic knowledge and updates in the labour field and maritime health: rules and regulations, epidemiology, evidence base in maritime medicine, occupational, medical care and preventive medicine.
- To develop pupil's abilities, competences and professional aptitudes to evaluate working conditions and activities related to maritime health of different workers to implement proper corrective and preventive measures.

Programme contents

<http://www.sre.urv.es/formacio/pmaritim/>

General aspects:

- **Module 1 (20 hours):**
Introduction to Maritime Health
Historical background, national and international rules and regulations, organisation of maritime medicine per countries.
- **Module 2 (20 hours):**
Statistics and epidemiology applied to maritime health research: Statistics and epidemiology. Evidence base maritime medicine



Programme contents

<http://www.sre.urv.es/formacio/pmaritim>

Specific aspects:

- **Module 3 (20 hours):**
Medical care
Telemedicine. Medical care on board and ashore. Maritime rescue and Catastrophes

- **Module 4 (20 hours):**
Fitness examinations

Standards in seafarer's fitness examinations: previous and periodicals to embark, specific examinations (divers, transports of dangerous goods...)

The image shows a screenshot of a web application interface. The top part displays a hierarchical diagram titled 'Asistencia sanitaria a los trabajadores del mar' (Medical care for seafarers). The diagram branches into 'Asistencia embarcada' (On-board care) and 'Asistencia en puerto' (On-shore care). 'Asistencia embarcada' includes 'Buques hospital' (Hospital ships) and 'Evacuaciones' (Evacuations), leading to 'Recursos sanitarios a bordo' (On-board medical resources). 'Asistencia en puerto' includes 'Servicios médicos' (Medical services) and 'Telemedicina' (Telemedicine). 'Servicios médicos' leads to 'Consulta radio-médica' (Radio medical consultation), which further leads to 'Medios de teleasistencia' (Teleassistance means) and 'Centro Radio Médico Español' (Spanish Radio Medical Center). 'Telemedicina' also leads to 'Medios de teleasistencia'. The bottom part of the screenshot shows a list of course modules in a table, with a search box and a dropdown menu. The table has columns for 'Nom.' (Name) and 'Modificació' (Modification). The dropdown menu lists various modules, including 'Módulo 3. Asistencia sanitaria de los trabajadores del mar'.

Programme contents

<http://www.sre.urv.es/formacio/pmaritim/>

Work conditions & Prevention:



Module 5 (30 hours):

Health and work conditions

Accidents and occupational diseases in maritime workers. Health by maritime activities: Dockers, fishing industry, merchant navy, divers, cruise ships, sports...

- **Module 6 (30 hours): Preventive medicine and occupational risk prevention**

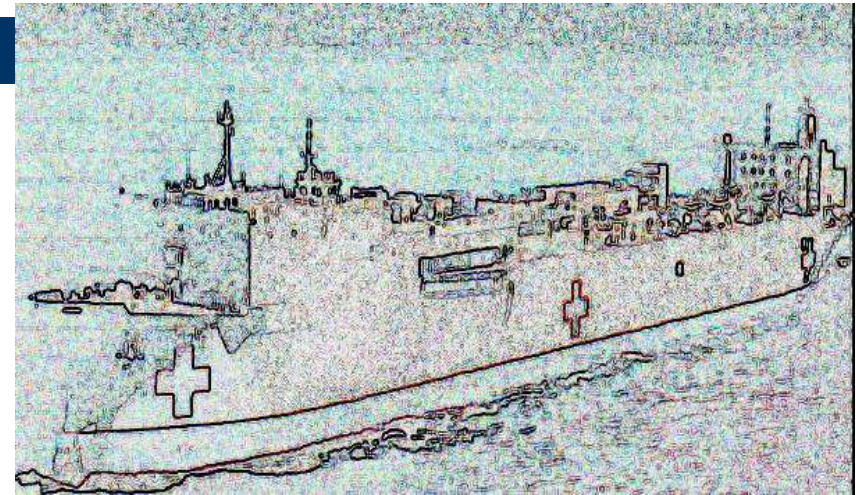
Job description. Management and occupational risk prevention (hygiene, safety, ergonomics, psychosociology). Vaccinations and travel medicine. Health promotion and education.

- **Module 7 (60 hours): Professional training**

Activities will be adapted to pupil's profile and they will be optional. From **stages in specialised centres, workshops, seminars, colloquies, courses and other activities** that will be announced in advance and a tutorised research work

Evaluation:

- Multiple choice test and self-evaluation (6 modules)
- Participation, abilities and attitudes in seminars, workshops, training, forum meetings even virtual ones, and professional reports.
- Applied research work



Timetable: minimum 1y: November to octobre

International Diplôme MM. UBO en Français

Spain: Master online+Pract (URV,UCA) ES-EN

Univ/C.Countries	URV	UCA Cádiz
Spain	42.4	45.1 %
Rest of Europe	18.2	12.9 %
America	27.2	19.4 %
Asia	9.1	16.1 %
Africa	3.0	6.5 %
Total (n=33, 31) 2008	100	100 % ...2010



Information

Fundación Universidad Empresa de la Provincia de Cádiz
C/ Benito Pérez Galdós s/n, primera planta. Edificio CTC
C.P. 11002, Cádiz (Spain)
Tfno. 0234 956 0702 - 72 - 73 | Fax: 0234 956 070 371
www.uca.es/web/estudios | www.fueca.org
email: formacion@fueca.es
More information in English or for Professional practice activities:
semm@semm.org



Programme contents

Module 1. History, Rules and Regulations, Statistics and Epidemiology, Evidence Based Maritime Medicine.

Module 2. National and International Organisation, Medical care and Preventive Maritime Medicine (including telemedicine, onboard medicine, medical fitness examinations), Working Conditions and Risk Prevention, Harbour, Navy, Tropical and Disaster Medicine, Toxicology, Hygiene, Survival and rescue at sea.

Modules 3 & 4. Underwater and Hyperbaric Medicine, Nautical Sports Medicine, Fitness medical examinations for professional divers and for nautical sports.

Practical. Telemedicine-advice consultation, visits on board, Maritime Medicine Centres, Naval Base of Rota, Hyperbaric chamber of the Naval Hospital of S. Carlos, rescue training and other recognised seminars and meetings.

information: <http://www.fueca.es>
semm@semm.org

Language: Spanish / English v
Modality: Mostly virtual on line +
Practical (practice training).

TODAY



XV Master in Lifelong Learning in Maritime Health Year 2023 - 2024

+Information

Fundación Universidad Empresa de la provincia de Cádiz
Avda. Doctor Gómez Ulla, 18 (Edificio Multiusos),
CP: 11003, Cádiz (España)
Phone 0034 956 07 03 72 or 73
home.fueca.es
formacion1@fueca.es



TODAY

XV Master in Lifelong Learning in Maritime Health

Year: 2022/2023

Diploma from the University of Cádiz, organized by the Faculty of Medicine with the collaboration of the Spanish Society of Maritime Medicine (SEMMA) and the International Maritime Health Association (IMHA). The main objective is to update and deepen knowledge in the field of maritime health from the point of view of regulatory, epidemiological, medical care and preventive aspects.

Direction

Dra. N. Felicidad Rodríguez Sánchez

PhD in Medicine and Surgery, UCA

Dr. Pedro Noguerolán Alonso de la Sierra

PhD in Medicine and Surgery, UCA / SEMMA / IMHA

Dra. María Luisa Carabí Pol-Lina

PhD in Medicine and Surgery, Specialist in Occupational Medicine, Maritime Health, SEMM/IMHA

Program:

Module 1: Basis of Maritime Medicine, 10 ECTS

Module 2: Management of medical examinations for seafarers, 10 ECTS

Module 2: Medicine in the maritime environment, 10 ECTS

Module 4: Prevention of occupational hazards on board, 10 ECTS

Module 5: Underwater and Hyperbaric Medicine, 10 ECTS

Module 6: Nautical - Sports Medicine, 5 ECTS

Courses options and Subscription Fee

XIV Master in Lifelong Learning in Maritime Health (60 ECTS) (from 11/02/2022 to 10/21/2024)

M1+M2+M3+M4+M5+M6 + Research work

Price: 2000 €

Specialist in Maritime Medicine (45 ECTS) (from 11/02/2022 to 06/28/2024)

M1+M2+M3+M4 + Research work

Price: 2250 €

XIII University Expert in Underwater and Nautical - Sports Medicine (15 ECTS) (from 01/01/2024 to 10/21/2024)

M5+M6

Price: 750 €

Specialist in occupational maritime medicine (35 ECTS) (from 01/09/2024 to 06/28/2024)

M3+M4+ M4 + Research work

Price: 1.750 €

Module 1: Basis of Maritime Medicine, 10 ECTS (from 11/02/2022 to 12/21/2022)

Price: 500 €

Module 2: Management of medical examinations for seafarers, 10 ECTS (from 01/09/2024 to 02/29/2024)

Price: 500 €

Module 2: Medicine in the maritime environment, 10 ECTS (from 03/06/2024 to 05/03/2024)

Price: 500 €

Module 4: Prevention of occupational hazards on board, 10 ECTS (from 05/06/2024 to 06/28/2024)

Price: 500 €

Module 5: Underwater and Hyperbaric Medicine, 10 ECTS (from 01/01/2024 to 09/27/2024)

Price: 500 €

Module 6: Nautical - Sports Medicine, 5 ECTS (from 10/03/2024 to 10/21/2024)

Price: 250 €

NOTE: The reference to ECTS is made for the purpose of equivalence in the management of teaching according to the standards of the University of Cádiz and it does not imply credit recognition.

Student profile:

- Master in Lifelong Learning / Expert / Specialist

- Graduates, Graduates of Health Sciences interested in Maritime Health issues.

- University students pending completion of some of the degrees and diplomas mentioned above. Submit "conditional registration" (See "Documentation" tab).

- Course/Module:

- Professors in health sciences, preferably graduates / graduates in medicine and diploma / graduates in nursing.

XV Master in Lifelong Learning in Maritime Health (60 ECTS)

1. Specialist in Maritime Medicine (45 ECTS)

Module 1: Basis of Maritime Medicine

Module 2: Management of medical examinations for seafarers

Module 2: Medicine in the maritime environment

Module 4: Prevention of occupational hazards on board

Research work

2. XII University Expert in Underwater and Nautical - Sports Medicine (15 ECTS)

Module 5: Underwater and Hyperbaric Medicine

Module 6: Nautical - Sports Medicine

3. Specialist in occupational maritime medicine (35 ECTS)

Module 2: Management of medical examinations for seafarers

Module 2: Medicine in the maritime environment

Module 4: Prevention of occupational hazards on board

Research work



More Information:

Fundación Universidad Empresa de la provincia de Cádiz

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UCA 2009-SEMM Spain Postgraduate Diplomas:

- Master
- U.Specialist:
 - Maritime Med
 - Occup.M.Med
- Expert
 - Underwater & Naut.Sports M.

UCV –2019 Venezuela SOMEMARPORT Diplomas:

- Maritime Med.4
- Port Med.
- Nurses, Asist.MM

Costa Rica 2023-2024

- Recogn.Speciality
- UCR:Marit Med.

**Quality Services
and training in
Maritime Health
needs a ...**

**JOINT
INTERNATIONAL
EFFORT**

**THANKS FOR
YOUR
ATTENTION**

