

Project MEDGuard.



Deliverable

D2.3 Planning and programming training actions directed to fishermen.

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Abstract

This document is the deliverable “D2.3 Planning and programming of training activities for Fishermen” of the MEDGuard project co-financed by the DGMare of the European Commission by the call “Guardians of the Sea, MARE/2014/24”. This call co-funds actions to promote the activity exchange of fishing vessels and the professional re-orientation of fishermen for activities and services outside fishing. In the MEDGuard project the reassigned fishing vessel “Ciudad de Cartagena” is operated in the coast of Cartagena with the aim to identify the requirements needed to guarantee the sustainability of the reorientation of the medium sized fishing fleet. This document retrieves the programming of the planed training actions for the necessary reorientation of the fishermen for the on-board fulfilment of new activities that replace common fishing in the deliverable “D1.1. Technical viability study”.

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Bibliography

- Call MARE2014/24. Guardian of the Sea. Ref. Ares(2014)3588218 - 29/10/2014
- Grant Application Form “Guardians of the Sea”, MEDGuard project.

Abbreviation list.

CTN	Centro Tecnológico Naval y del Mar
HESPÉRIDES	CIFP Hespérides
IVEAEMPA	Identities, values and strategies alternatives para los empresarios marítimos y pesqueros

1 Introduction.

The MEDGUARD Project is funded by DGMare of the European Commission within the call “Guardians of the Sea, MARE/2014/24”. This call funds preparatory actions to promote the reassignment of fishing vessels and the professional re-orientation of fishermen for activities and services outside fishing which should contribute to the sustainable management and use of marine and maritime resources.

In the MEDGuard project the reassigned fishing vessel “Ciudad de Cartagena” is operated in Cartagena coast to examine and demonstrate the feasibility and economic viability of substitute activities to fishing with the main aim of identifying the requirements needed to guarantee the sustainability of the reorientation of the medium size fishing fleet. The Project has the following specific objectives:

- ✓ To perform a series of tests in Western Mediterranean Coast using the reassigned fishing vessel “Ciudad de Cartagena”.
- ✓ To analyse the technical viability of using the acoustic systems and devices of fishing vessels for collecting lost fishing gears.
- ✓ To analyse the economic conditions and operational costs of vessels to perform maritime activities outside fishing and identify ways for future funding.
- ✓ To identify the relevant training needs of fishermen and vessel owners to perform the substitute activities.
- ✓ To provide useful data and information about costs and ways of funding to the promoters of the diversification activities, fishermen and the authorities with competences in the management of programmes related to the CFP Reform.

To achieve its objectives, the project has 5 work packages which relationships are shown in Figure 1.

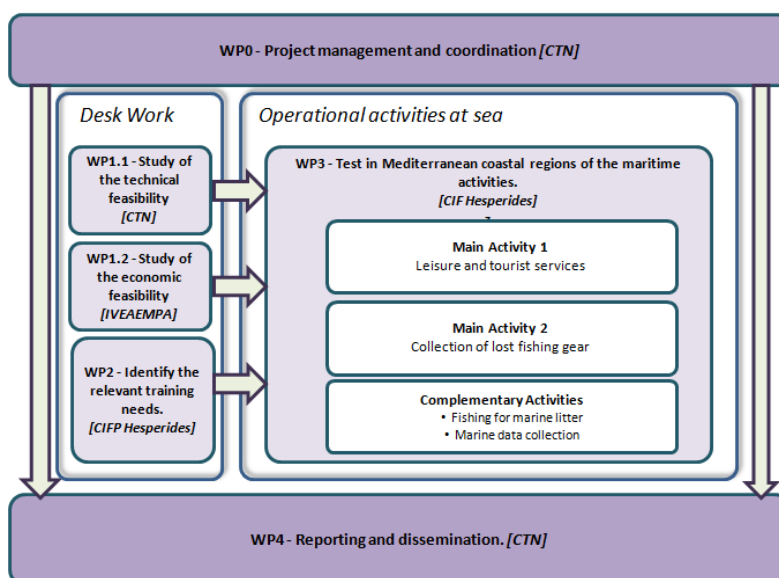


Figure 1. Work Plan Structure

This document details the training itineraries to cover the training requirements to guarantee the fishermen reorientation towards the on-board fulfilment of new replacing activities from

fishing. The posts that require a restructuring are (A) Ship-owner, (B) Skipper and sailor and (C) Ship's Engineer. For each of the 3 positions there are alternatives, resulting in the definition of 12 general skills (see section 4). Each one of these general skills have broken down into a series of specific skills (see summary in section 4). The outcome of this work was reflected in the deliverable "D2.2 Proposal for the definition of new professional skills to take into account the new activities". The necessary training itinerary for the crew restructuring was fulfilled based on the priority of the acquiring skills in (i) Imperatives (to fulfil before starting), (ii) Imperatives (to fulfil during the first year) and (iii) Secondary. As a result, we obtained a total of 12 training itineraries, one for each profile and alternative activity that are detailed in sections 5 and 6 of this deliverable ("D2.1 Catalogue with the training itineraries for the professional reorientation of the fishermen and ship-owners").

In this document it describes the planning and programming of the training activities fulfilled by the fishermen during the project's realization. The results of this training are described in the "D2.4 Evaluation of the training actions".

The project is developed by three entities (CTN, CIFP, Hesperides and IVEAEMPA) and coordinated by CTN and has a duration of 12 months starting in August 2015.

2 Document objectives.

This document collects the training action planning fulfilled by the crew of Ciudad de Cartagena for the fulfilment of sea campaigns in order to analyse the viability of activities other than fishing

3 Methodology.

The fulfilment of the alternative activities will require the restructuring of these 4 professional profiles (A) Ship-owner, (B) Skipper and sailor and (c) Ship’s Engineer, besides other professional profiles that are not object to restructuring and that fulfil different activities like for example: tour guides, oceanography investigators, marine biology experts...

For each of the 3 job positions, there has been defined the general competence to fulfil each one of the 4 alternative activities, resulting in the definition of 12 general competences. Each of these general competences have been broken down in a series of specific competences following the nomenclature of the National Catalogue of Professional Qualifications (CNCP) of Spain. The result of this work has been reflected in the deliverable. “D2.2 Definition proposal with the new professional competences required to carry out the new activities”.

In the deliverable “D2.1 Catalogue with the training itineraries for the professional reorientation of the fishermen and ship-owners” it was detailed the formative itinerary for each profile and substitutive activity. In order to establish the formative itinerary for the crew restructuring, the needs of the identified training were divided in three groups based on its priority: (i) Imperatives (to fulfil before starting), (ii) Imperatives (to fulfil during the first year) and (iii) Secondary. As a result of this work we’ve obtained a total of 12 formative itineraries, one for each profile and substitutive activity.

In the following diagram it shows the methodology for the development of the working package 2, Identification of the training needs, and its deliverables.

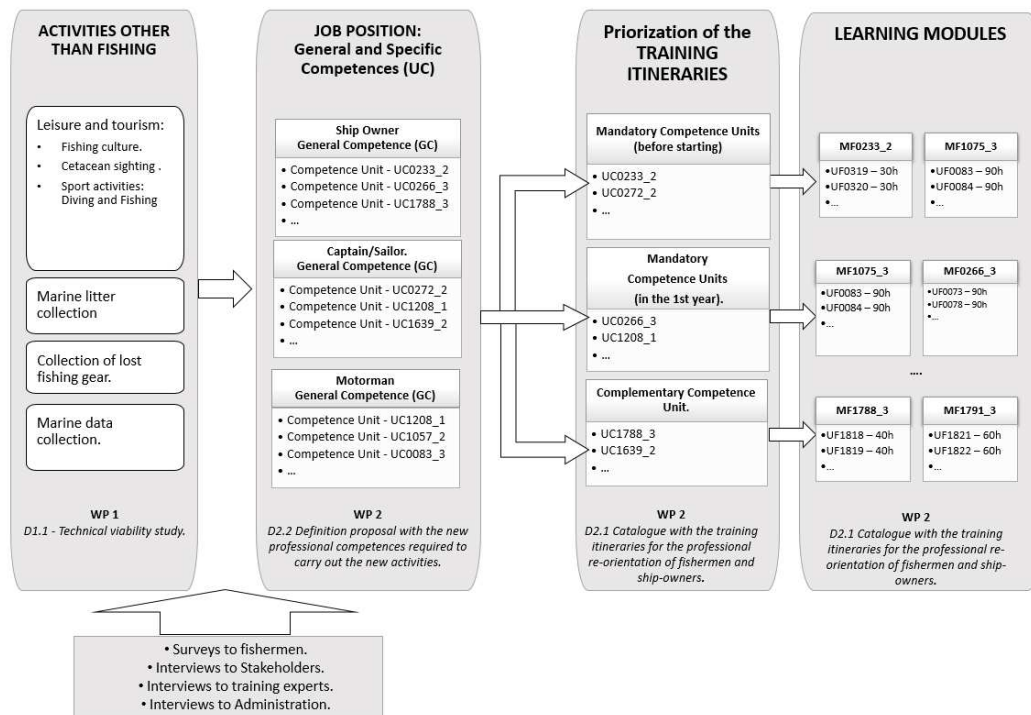


Figure 2. Methodology to identify the general and specific competences for the professional reorientation of the fishermen towards alternative activities for fishing.

The planning and programming of the training actions taken into account by the temporal framework of the project was fulfilled based on the designed formative itineraries (see D2.1.) keeping in mind the following limitations originated by the project’s realization plan:

- That should be taken into account completely in the temporal limits of the project and

that shouldn't depend on previous training actions for its development.

- That the result may be gradable in a rapid and simple way. We need to value two parameters fundamentally:
 - Group's objective ability ((A) Ship-owner. (B) Skipper and sailor and (C) Ship's Engineer) to assimilate with use the training.
 - Utility in the received training for the development of a new commercial activity.

- Provide fundamental competences for the crew in order to fulfil the campaigns with success:
 - Leisure and tourism activities – dissemination of the fishing culture; cetacean sighting and sport activities;
 - Marine litter collection.
 - Collection of lost fishing gear.
 - Marine data collection activities.

- For the crew of Ciudad de Cartagena it was considered:
 - Ship-owner: should assume the manager functions of the new activity/enterprise.
 - Skipper and Sailor: it was considered the additional training that should have for the fulfilment of new activities should be the same.
 - Ship's Engineer.

4 Planning and programming of the training actions for the professional restructuring of the fishermen and ship-owners.

4.1 Planning and programming for the training actions for Leisure and tourism activities.

The formative itinerary is composed by the following actions, the yellow-marked ones being the ones that were planned and executed in the framework of project.

ECONOMIC ACTIVITY		1. - Leisure and tourism activities – Dissemination of the fishing culture; cetacean sighting and sport activities (Recreational Diving and Recreational fishing).	
Job position		1.- Ship-owner	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0233_2: Office (partial)	110	UF0319: Operative system, Information search: Internet/Intranet and Email.	30
		UF0320: Computing applications of text treatment.	30
		UF0321: Computing applications of calculations' sheets.	50
TOTAL HOURS:	110		
2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF1057_2 Professional English for tourism	90		90
MF1792_2 Managing the prevention of working risks in small businesses	60		60
MF2005_2: Passenger support in conveyances.	60		60
MF1075_3: Local products and touristic services.	180	UF0083: Designing local products and touristic services.	90
		UF0084: Promoting and commercializing local products and touristic services.	90
MF0266_3: Promoting and selling touristic services.	250	UF0073: Products, services and touristic destinations.	90
		UF0078: Advising, selling and commercializing products and touristic services.	90
		UF0079: Management of global distribution systems (GDS).	40
		UF0042: Communication and customer support in hotel business and tourism.	30
MF0233_2: Office (completes the MF)	80	UF0322: Computing applications with Relational Data Base.	50
		UF0323: Computing applications for presentations: Information charts.	30

TOTAL HOURS:	720		
3. - Secondary: those that are not considered essential for the development of the activity.			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF1789_3 The address of the business activity of small businesses or micro-enterprises	90		90
MF1790_3 Introducing to the market products and services in small businesses or micro-enterprises	90		90
MF1070_3: Natural-touristic resources	150		150
MF1788_3: Planning and enterprising initiative in small businesses or micro-enterprises	120	UF1818: Enterprising attitude and business opportunities	40
		UF1819: Project and viability of the business or micro-enterprise	40
		UF1820: Marketing and business plan of the micro-enterprise	40
MF1791_3 Administrative and economic-financial management of small businesses or micro-enterprises	120	UF1821 : Startup and financing small businesses or micro-enterprises	60
		UF1822 : Accounting, fiscal and labour management in small businesses or micro-enterprises	60
TOTAL HOURS:	570		

Table 1 Itinerary for the Ship-owner – Leisure and tourism activity.

ECONOMIC ACTIVITY	1. - Leisure and tourism – dissemination of the fishing culture; cetacean sighting and sport activities (Recreational Diving and Recreational fishing).		
JOB POSITION	2.- Skipper and sailor		
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF1637_2 Immersions with air or nitrox using an automatic diving system and/or a diving semiautomatic system until a maximum pressure of five atmospheres. (Partial).	63	1 star diver FEDAS-CMAS + practical lessons	60
		Basic life support	3
MED-C102- First aid (Diving)	30		30
MF0255_1: Culinary provisions, pre-elaboration and conservation (partial).	30	UF0053: Implementation of hygienic-sanitary rules and conditions in restoration	30
IMO CM1.28	32	Crowd control, passenger safety and safety training for the personnel that proposes a direct passenger service in the their destined spaces	32

RD1544/07	13	Acting and training protocol of the passage vessel's crew and the personnel training of the marine enterprises that serve in the port's terminals for the attention of the disabled people	13
MF0806_3: Environmental educational programs (Partial)	40	UF0740: Program and environmental educational activities' realization	40
TOTAL HOURS:	208		
2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF1637_2 Immersions with air or nitrox using an automatic diving system and/or a diving semiautomatic system until a maximum pressure of five atmospheres. (Completes the given part from Itinerary 1)	177	2 star diver FEDAS-CMAS + practical lessons	55
		Oxygen administration	4
		3 star diver FEDAS-CMAS + access practical lessons	118
MF1057_2 Professional English for tourism	90		90
MF2005_2: Passenger support in conveyance.	60		60
MF0256_1: Basic culinary elaboration (partial)	90	UF0056: Fulfilment of basic and elemental elaborations in culinary and assisting in the culinary elaboration.	90
MF0257_1: Basic bar-restaurant service (partial)	60	UF0059: Basic food and drink service and post-service tasks in the restaurant	60
MF0258_1: Provisions, drinks and fast food (partial)	60	UF0061: Fast food and drink preparation and service in the bar	60
MF1209_1: Auxiliary operations with ICT.	90		90
MF1208_1: Auxiliary operations of micro-computing maintenance systems	70		70
MF0806_3: Environmental educational programs (partial)	40	UF0738: Environmental education and implementation fields	40
MF0085_3. Control and vigilance of the hunting and fishing resources' exploitation	70		70
TOTAL HOURS:	737		
3. - Secondary: those that are not considered essential for the development of the activity.			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MED-ASBD102- Recreational Diving's natural surroundings	10		10
MED-ASBD103- Organization of activities of Recreational Diving's discovery and	30		30

conducting			
MED-C101- Sports behaviour bases	20		20
MED-C103- Adapted physical activity and disability.	5		5
MED-ASBD104- Underwater conducting	35		35
MED-C104- Sports organisation	5		5
MED-ASBD105- Practical training	150		150
MF1070_3: Natural-touristic resources	150		150
MF0255_1: Culinary provisions, pre-elaboration and conservation (completes the MF)	90	UF0054: Provisions in kitchen's raw materials	30
	60	UF0055: Culinary pre-elaboration and conservation	60
MF0257_1: Basic bar-restaurant service (completes the MF)	30	UF0058: Basic amount use of the restaurant and assistance in pre-service	30
MF0258_1: Provisions, drinks and fast food (completes the MF)	30	UF0060: Provisions and storage of food and drinks inside the bar	30
MF0256_1: Basic culinary elaboration (completes the MF).	60	UF0057: Combined dishes and appetizers elaboration	60
MF0806_3: Environmental educational programs (completes the MF).	40	UF0739: Heritage interpretation as a communication and management strategy	40
TOTAL HOURS:	715		

Table 2 Training itinerary for the Skipper / sailor – Leisure and tourism activity.

ECONOMIC ACTIVITY		1.- Leisure and tourism – dissemination of the fishing culture; cetacean sighting and sports activities (Recreational Diving and Recreational fishing)	
JOB POSITION		3 - Ship's Engineer	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MED-C102- First aid (Diving)	30		30
MF1208_1: Auxiliary operations on micro-computing system maintenance	70		70
MF0806_3: Environmental educational programs (partial)	40	UF0740: Realization of programs and environmental educational activities	40
TOTAL HOURS:	140		

2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF1057_2 Professional English for tourism	90		90
MF1209_1: Auxiliary operations in ICT	90		
MF0806_3: Environmental educational programs (partial)	40	UF0738: Environmental education and application fields.	40
MF0083_3: Public use activities and environment protection	50	UF1263: Control and vigilance of waste and/or spilled	50
MF0085_3. Control and vigilance of the hunting and fishing resources' use	70		70
TOTAL HOURS:	270		
3. - Secondary: those that are not considered essential for the development of the activity.			
TRAINING ACTIVITY	HOURS	TRAINING UNITY	HOURS
MF0806_3: Environmental educational programs	40	UF0739: Heritage interpretation as a communication and management strategy.	40
MF0083_3: Public use activities and environmental protection (completes the MF)	130	UF1261: Public use control in the natural and rural places	60
		UF1262: Management procedures on the control and protection of the environment	70
TOTAL HOURS:	170		

Table 3 Training itinerary for the Ship's Engineer – Leisure and Tourism activity

The training actions that were planned and programmed are:

ECONOMIC ACTIVITY		1.- Leisure and tourism – dissemination of the fishing culture; cetacean sighting and sports activity (Recreational Diving and Recreational fishing)		
TRAINING UNITY	HOURS	JOB POSITION	NUMBER OF STUDENTS	DATE
<ul style="list-style-type: none"> RD1544/07 Protocols of the crews' acting and training from the passage vessels and the personnel's training from whom the marine enterprises service the port's terminals for the disabled's regard (with no access level). 	13	Skipper and sailor and Ship's Engineer	10	21-06 28-06 30-06
<ul style="list-style-type: none"> UF0061: Drinks and fast food preparation and service in the bar. 	60	Skipper and sailor	10	21-06 to 30-06
<ul style="list-style-type: none"> UF0321: Computing 	32	Ship-owner,	10	04-04 to 23-05

applications of spreadsheets				
<ul style="list-style-type: none"> • MF0085_3. Control and vigilance of the hunting and fishing resources' use. 	70	Skipper and sailor and Ship's Engineer	10	06-04 to 15-06
TOTAL HOURS :	175			

The presentation's schedule is the following.

Training Action	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
RD1544/07												
UF0061												
UF0321												
MF0085_3												

4.2 Planning and programming of the training actions for the Marine litter collection activity

The training itinerary is composed by the following actions, the yellow marked ones being those that were planned and implemented in the framework of project.

ECONOMIC ACTIVITY		2 – Marine litter collection.	
JOB POSITION		1 – Ship-owner	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0233_2: Office (partial)	110	UF0319: Operative System, Information search: Internet/Intranet, and Email.	30
		UF0320: Computing applications in text processing	30
		UF0321: Computing applications in spreadsheets Computing applications in spreadsheets	50
TOTAL HOURS:	110		
2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF1792_2 Managing the working risk prevention in small businesses	60		60
MF0233_2: Office (completes the MF)	80	UF0322: Computing applications in Related Databases.	50
		UF0323: Computing applications for presentations: information charts	30
TOTAL HOURS:	140		
3. - Secondary: those that are not considered essential for the development of the activity.			

TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF1788_3: Planning and enterprising initiative in small businesses or micro-enterprises	120	UF1818: Enterprising attitude and business opportunities	40
		UF1819: Project and viability of the business or micro-enterprise	40
		UF1820: Marketing and business plan of the micro-enterprise	40
MF1789_3 Management of the corporate activity of small businesses or micro-enterprises	90		90
MF1790_3 Commercializing products and services in small businesses or micro-enterprises	90		90
MF1791_3 Administrative and economic-financial management of small businesses or micro-enterprises	120	UF1821 : Starting and financing small businesses or micro-enterprises	60
		UF1822: Accountable, fiscal and working management in small businesses or micro-enterprises.	60
TOTAL HOURS:	420		

Table 4 Ship-owner's training itinerary - Marine litter collection.

ECONOMIC ACTIVITY	2 - Marine litter collection.		
JOB POSITION	2.- Skipper and sailor		
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0083_3: Public use activities and environmental protection	180	UF1261: Public use control in the natural and rural places.	60
		UF1262: Management procedures for the control and protection of the environment.	70
		UF1263: Control and vigilance of waste and/or spilled.	50
TOTAL HOURS:	180		
2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0806_3: Environmental educational programs (partial)	40	UF0738: Environmental education and application fields.	40
MF0085_3. Control and vigilance of the hunting and fishing resources' use	70		70
TOTAL HOURS:	40		
3. - Secondary: those that are not considered essential for the development of the activity.			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0806_3: Environmental educational programs	80	UF0739: Heritage interpretation as a communication and management strategy.	40

(completes the MF)		UF0740: Environmental educational programs and activities realization	40
TOTAL HOURS:	80		

Table 5 Skipper/sailor training itinerary - Marine litter collection.

ECONOMIC ACTIVITY		2. - Marine litter collection.	
JOB POSITION		3.- Ship's Engineer	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0083_3: Public use activities and environmental protection	180	UF1261: Public use control in the natural and rural places.	60
		UF1262: Management procedures for the control and protection of the environment.	70
		UF1263: Control and vigilance of waste and/or spilled.	50
TOTAL HOURS:	180		
2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0806_3: Environmental educational programs (partial)	40	UF0738: Environmental education and application fields	40
MF0085_3. Control and vigilance of the hunting and fishing resources' use	70		70
TOTAL HOURS:	40		
3. - Secondary: those that are not considered essential for the development of the activity.			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0806_3: Environmental educational programs (completes the MF)	80	UF0739: Heritage interpretation as a communication and management strategy.	40
		UF0740: Environmental educational programs and activities realization	40
TOTAL HOURS:	80		

Table 6 Ship's Engineer training itinerary - Marine litter collection.

The planned and programmed training actions are:

ECONOMIC ACTIVITY		2 - Marine litter collection.		
TRAINING UNITY	HOURS	JOB POSITION	NUMBER OF STUDENTS	DATE
UF0321: Computing applications in spreadsheets	32	Ship-owner,	10	04-04 al 23-05
MF0085_3. Control and vigilance of the hunting and fishing resources' use	70	Skipper and sailor & Ship's Engineer	10	06-04 al 15-06

TOTAL HOURS :	102			
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The programing's schedule is the following:

TRAINING ACTION	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
UF0321												
MF0085_3												

4.3 Planning and programming of the training actions for the lost fishing gear collection activity.

The training itinerary is composed by the following actions, the yellow marked ones being those that were planned and implemented in the framework of project.

ECONOMIC ACTIVITY		3. - Lost fishing gear collection.	
JOB POSITION		1.- Ship-owner	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0233_2: Office (partial)	110	UF0319: Operative system, Information Search: Internet/Intranet and Email	30
		UF0320: Computing applications in text processing	30
		UF0321: Computing applications in spreadsheets	50
TOTAL HOURS:	110		
2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF1792_2 Management of the working risks' prevention in small businesses	60		60
MF0233_2: Office (completes the MF)	80	UF0322: Computing applications in Related Databases	50
		UF0323: Computing applications for presentations: Information charts	30
TOTAL HOURS:	140		
3. - Secondary: those that are not considered essential for the development of the activity.			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF1788_3: Planning and enterprising initiative in small businesses or micro-enterprises	120	UF1818: Enterprising attitude and business opportunities.	40
		UF1819: Project and viability of the business or micro-enterprise	40
		UF1820: Marketing and business plan of the micro-enterprise	40
MF1789_3 Management of the corporate activity of small businesses or micro-enterprises	90		90
MF1790_3 Commercializing products and services in small businesses or micro-enterprises	90		90
MF1791_3 Administrative and economic-financial management of small businesses or micro-enterprises	120	UF1821 : To start and finance small businesses or micro-enterprises	60
		UF1822 : Accountable, fiscal and working management in small businesses or micro-enterprises	60

TOTAL HOURS:	420
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Table 7 Training itinerary for the Ship-owner – Lost fishing gear collection

ECONOMIC ACTIVITY		3. - Lost fishing gear collection.	
JOB POSITION		2.- Skipper and sailor	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0083_3: Public use activities and environmental protection (Partial)	180	UF1261: Public use control in the natural and rural places.	60
		UF1262: Management procedures for the control and protection of the environment.	70
		UF1263: Control and vigilance of waste and/or spilled.	50
TOTAL HOURS:	180		
2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0806_3: Environmental educational programs (partial)	40	UF0738: Environmental education and application fields	40
MF0085_3. Control and vigilance of the hunting and fishing resources' use	70		70
TOTAL HOURS:	40		
3. - Secondary: those that are not considered essential for the development of the activity.			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0806_3: Environmental educational programs (completes the MF)	80	UF0739: Heritage interpretation as a communication and management strategy.	40
		UF0740: Environmental educational programs and activities realization	40
TOTAL HOURS:	80		

Table 8 Training itinerary for the Skipper / sailor - Lost fishing gear collection.

ECONOMIC ACTIVITY		3. - Lost fishing gear collection.	
JOB POSITION		3.- Ship's Engineer	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0083_3: Public use activities and environmental protection (Partial)	180	UF1261: Public use control in the natural and rural places.	60
		UF1262: Management procedures for the control and protection of the environment.	70
		UF1263: Control and vigilance of waste and/or spilled.	50
TOTAL HOURS:	180		

2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0806_3: Environmental educational programs (partial)	40	UF0738: Environmental education and application fields.	40
MF0085_3. Control and vigilance of the hunting and fishing resources' use	70		70
TOTAL HOURS:	40		
3. - Secondary: those that are not considered essential for the development of the activity.			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0806_3: Environmental educational programs (completes the MF)	80	UF0739: Heritage interpretation as a communication and management strategy.	40
		UF0740: Environmental educational programs and activities realization	40
TOTAL HOURS:	80		

Table 9 Training itinerary for the Ship's Engineer - Lost fishing gear collection.

The planned and programmed training actions are:

ECONOMIC ACTIVITY		3. - Lost fishing gear collection.		
TRAINING UNITY	HOURS	JOB POSITION	NUMBER OF STUDENTS	DATE
UF0321: Computing applications in spreadsheets	32	Ship-owner,	10	04-04 to 23-05
MF0085_3. Control and vigilance of the hunting and fishing resources' use	70	Skipper and sailor and Ship's Engineer	10	06-04 to 15-06
TOTAL HOURS :	102			

The programing's schedule is the following:

TRAINING ACTION	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
UF0321												
MF0085_3												

4.4 Planning and programing of the training actions for the Marine Data Collection activities.

The training itinerary is composed by the following actions, the yellow marked ones being those that were planned and implemented in the framework of project.

ECONOMIC ACTIVITY		4. - Marine data collection.	
JOB POSITION		1.- Ship-owner	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0233_2: Office (partial)	110	UF0319: Operative system, Information Search: Internet/Intranet and Email	30
		UF0320: Computing applications in text processing	30
		UF0321: Computing applications in spreadsheets	50
TOTAL HOURS:	110		
2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF1792_2 Management of the working risks' prevention in small businesses	60		60
MF0233_2: Office (completes the MF)	80	UF0322: Computing applications in Related Databases	50

		UF0323: Computing applications for presentations: Information charts	30
TOTAL HOURS:	140		
3. - Secondary: those that are not considered essential for the development of the activity.			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF1788_3: Planning and enterprising initiative in small businesses or micro-enterprises	120	UF1818: Enterprising attitude and business opportunities	40
		UF1819: Project and viability of the business or micro-enterprise	40
		UF1820: Micro-enterprise's marketing and business plan	40
MF1789_3 Management of the corporate activity of small businesses or micro-enterprises	90		90
MF1790_3 Commercializing products and services in small businesses or micro-enterprises	90		90
MF1791_3 Administrative and economic-financial management of small businesses or micro-enterprises	120	UF1821 : To start and finance small businesses or micro-enterprises	60
		UF1822 : Accountable, fiscal and working management in small businesses or micro-enterprises	60
TOTAL HOURS:	420		

Table 10 Training itinerary for the Ship-owner – Marine data collection.

ECONOMIC ACTIVITY	4. - Marine data collection.		
JOB POSITION	2.- Skipper and sailor		
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0083_3: Public use activities and environmental protection	180	UF1261: Public use control in the natural and rural places.	60
		UF1262: Management procedures for the control and protection of the environment.	70
		UF1263: Control and vigilance of waste and/or spilled.	50
TOTAL HOURS:	180		
2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0806_3: Environmental educational programs (partial)	40	UF0738: Environmental education and application fields.	40
MF0085_3. Control and vigilance of the hunting and fishing resources' use	70		70
TOTAL HOURS:	40		

3. - Secondary: those that are not considered essential for the development of the activity.			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0806_3: Environmental educational programs (completes the MF)	80	UF0739: Heritage interpretation as a communication and management strategy.	40
		UF0740: Environmental educational programs and activities realization	40
TOTAL HOURS:	80		

Table 11 Training itinerary for the Skipper / sailor -- Marine data collection.

ECONOMIC ACTIVITY		4. - Marine data collection.	
JOB POSITION		3.- Ship's Engineer	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0083_3: Public use activities and environmental protection	180	UF1261: Public use control in the natural and rural places.	60
		UF1262: Management procedures for the control and protection of the environment.	70
		UF1263: Control and vigilance of waste and/or spilled.	50
TOTAL HOURS:	180		
2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0806_3: Environmental educational programs (partial)	40	UF0738: Environmental education and application fields	40
MF0085_3. Control and vigilance of the hunting and fishing resources' use	70		70
TOTAL HOURS:	40		
3. - Secondary: those that are not considered essential for the development of the activity.			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0806_3: Environmental educational programs (completes the MF)	80	UF0739: Heritage interpretation as a communication and management strategy.	40
		UF0740: Environmental educational programs and activities realization	40
TOTAL HOURS:	80		

Table 12 Training itinerary for the Ship's Engineer - Marine data collection.

The planned and programmed training actions are:

ECONOMIC ACTIVITY		4. - Marine data collection.		
TRAINING UNITY	HOURS	JOB POSITION	NUMBER OF STUDENTS	DATE
UF0321: Computing applications in spreadsheets	32	Ship-owner,	10	04-04 al 23-05

MF0085_3 . Control and vigilance of the hunting and fishing resources' use	70	Skipper and sailor and Ship's Engineer	10	06-04 al 15-06
TOTAL HOURS :	102			

The programing's schedule is the following:

TRAINING ACTION	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
UF0321												
MF0085_3												

5 Realization of training actions.

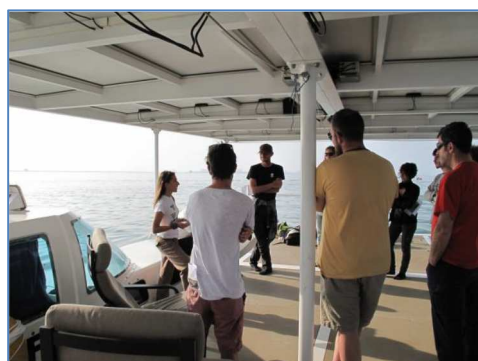
5.1 Students.

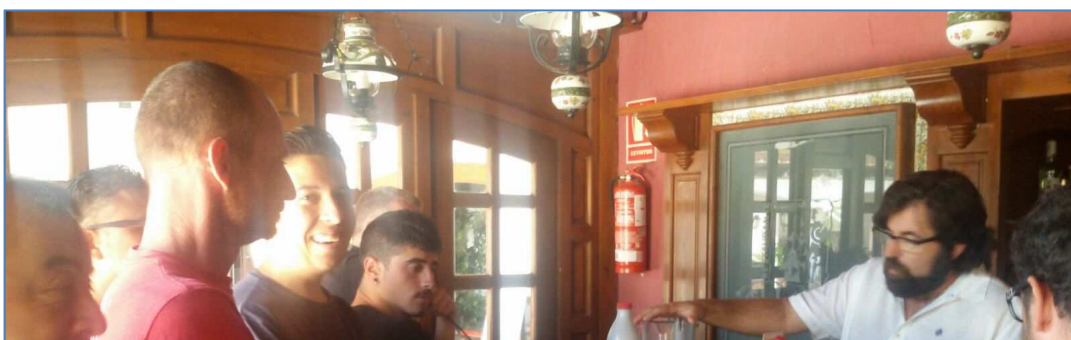
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 DIEZ BEBIA, JUAN RAFAEL
 FUSTER SANZ, CRISTINA
 LÓPEZ MONTALBAN, DIEGO
 MARTÍNEZ MUÑOZ, IVÁN
 MARTINEZ PELEGRIN, FLAVIO
 MORENO HERNÁNDEZ, IVÁN
 PAZOS CONDE, SERGIO
 PÉREZ SOUBRIER, CLAUDIO
 ROCA IGLESIAS, PEDRO JESUS
 RODRÍGUEZ DE VIGURI ARROYO, MANUEL DIEGO
 ARMERO GARRIGOS, SALVADOR
 JUSTICIA ARMERO, OLGA
 SEGADE GARCÍA, JUAN MANUEL
 ARAQUE CABALLERO, ELENA
 DIAZ ABELLAN, ALEJANDRO
 MERCADER MONTESINOS, ANGEL

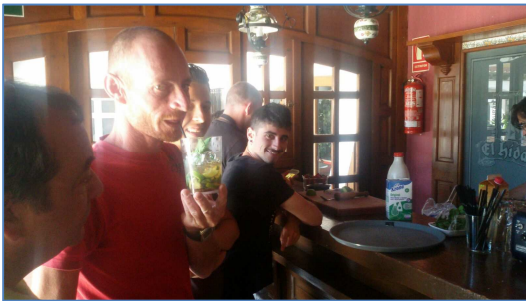
TRAINING UNITY	Students
<p>RD1544/07 Acting and training protocols for the passage's vessel and the training for the marine enterprises' personnel that serve in ports' terminals for the support on the disabled (no access level)</p>	<p> BARRIO HERVAS, CARLOS CAMPOS RUBIO, MIGUEL ANGEL DIEZ BEBIA, JUAN RAFAEL LÓPEZ MONTALBAN, DIEGO MARTÍNEZ MUÑOZ, IVÁN MARTINEZ PELEGRIN, FLAVIO MORENO HERNÁNDEZ, IVÁN PAZOS CONDE, SERGIO ROCA IGLESIAS, PEDRO JESUS RODRÍGUEZ DE VIGURI ARROYO, MANUEL DIEGO ARMERO GARRIGOS, SALVADOR JUSTICIA ARMERO, OLGA SEGADE GARCÍA, JUAN MANUEL </p>
<p>UF0061: Drinks and fast food preparation and service inside the bar</p>	<p> BARRIO HERVAS, CARLOS CAMPOS RUBIO, MIGUEL ANGEL MARTÍNEZ MUÑOZ, IVÁN MARTINEZ PELEGRIN, FLAVIO MORENO HERNÁNDEZ, IVÁN PAZOS CONDE, SERGIO ROCA IGLESIAS, PEDRO JESUS RODRÍGUEZ DE VIGURI ARROYO, MANUEL DIEGO SEGADE GARCÍA, JUAN MANUEL ARAQUE CABALLERO, ELENA </p>

<p><u>UF0321</u>: Computing applications in spreadsheets</p>	<p>BARRIO HERVAS, CARLOS CAMPOS RUBIO, MIGUEL ANGEL DIEZ BEBIA, JUAN RAFAEL FUSTER SANZ, CRISTINA LÓPEZ MONTALBAN, DIEGO MARTÍNEZ MUÑOZ, IVÁN MARTINEZ PELEGRIN, FLAVIO MORENO HERNÁNDEZ, IVÁN PAZOS CONDE, SERGIO PÉREZ SOUBRIER, CLAUDIO ROCA IGLESIAS, PEDRO JESUS RODRÍGUEZ DE VIGURI ARROYO, MANUEL DIEGO ARMERO GARRIGOS, SALVADOR JUSTICIA ARMERO, OLGA SEGADE GARCÍA, JUAN MANUEL</p>
<p><u>MF0085_3</u>. Control and vigilance of the hunting and fishing resources' use</p>	<p>BARRIO HERVAS, CARLOS CAMPOS RUBIO, MIGUEL ANGEL DIEZ BEBIA, JUAN RAFAEL LÓPEZ MONTALBAN, DIEGO MARTÍNEZ MUÑOZ, IVÁN MARTINEZ PELEGRIN, FLAVIO MORENO HERNÁNDEZ, IVÁN PAZOS CONDE, SERGIO PÉREZ SOUBRIER, CLAUDIO RODRÍGUEZ DE VIGURI ARROYO, MANUEL DIEGO SEGADE GARCÍA, JUAN MANUEL</p>

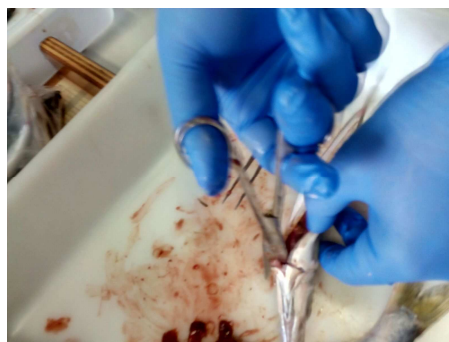
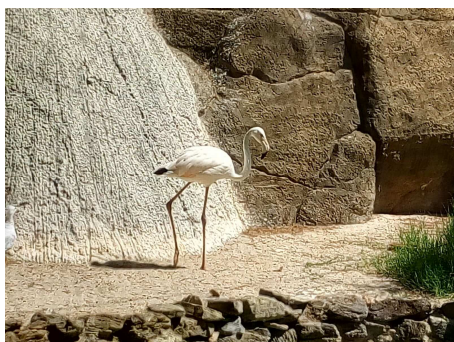
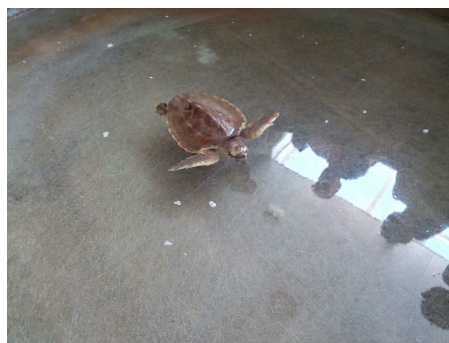
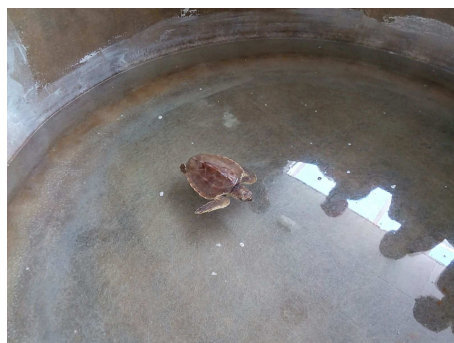
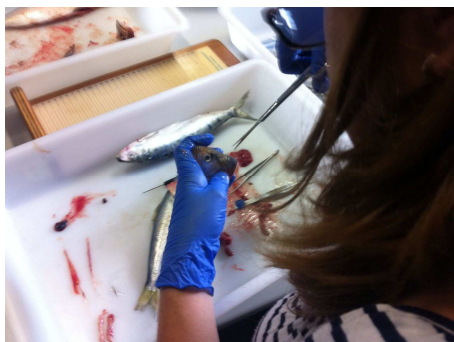
5.2 Pictures of the training actions.

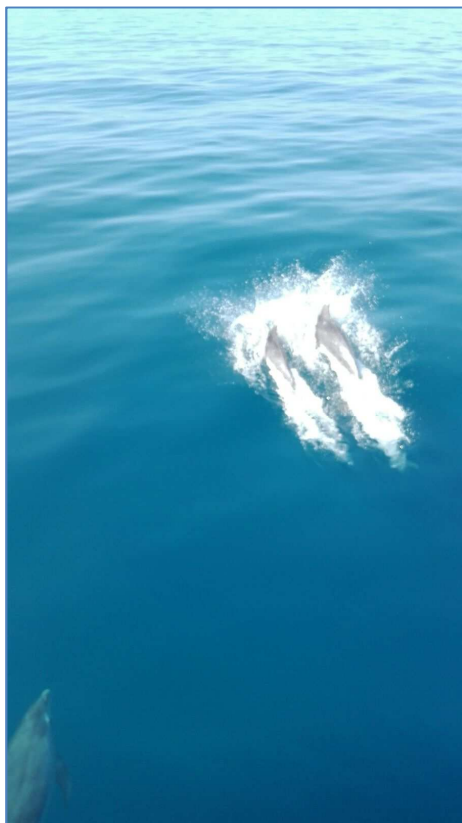












6 Conclusions.

The restructuring of the fishing fleet for the fishing's effort reduction, involves the necessary reorientation of the fishermen for the on-board fulfilment of new substitutive activities for fishing. In the MEDGuard project's framework the Ciudad de Cartagena fishing vessel, an old trawler with a total length of 24 m, built in 1996 and retrieved in 2014 serves as case of use to analyse the viability on fulfilling substitutive activities for fishing (Leisure and tourism, Marine litter collection, Lost fishing gear collection and Marine data collection).

In this case, the positions that require a professional restructuring are (A) Ship-owner, (B) Skipper and sailor and (C) Ship's Engineer. For each of the 3 job positions was defined the necessary general competence to fulfil each of the 4 alternative activities, resulting in the definition of 12 general competences (see section 4). Each of these general competences were broken down into a series of specific competences (see the summary in section 4). To acquire each of these 12 competences it was determined a training itinerary for each profile and substitutive activity. These priorities are: (i) Imperatives (to fulfil before starting), (ii) Imperatives (to fulfil during the first year) and (iii) Secondary. The academic load of each of the 12 training itineraries were distributed in 3 priorities in order to reduce the intensity of the training effort and make it compatible, as far as possible, with the activity's development. This way the work schedule of each of these training itineraries varies between 300 hours (for the Sailor Skippers and Ship's Engineers fulfilling the Marine litter collection, Lost fishing gear collection and Marine data collection activities) and the maximum work schedule of 1660 hours (for the Skippers and sailors in the Leisure and Tourism activity)

The deliverable "D2.2 Proposal for the definition of new professional competences to be taken into account by the new activities" contains a more detailed information about the listed competences in Section 4. Likewise, in the "D2.3 Planning and programming of the training activities towards fishermen" expected for the project's 12th month might find the training actions' diagram to be fulfilled by the crew of Ciudad de Cartagena for the fulfilment of the sea campaigns that will allow to determine the professional viability and reorientation of the fishermen for the fulfilment of alternative activities from fishing.

6.1 Summary of the programmed training actions

The programmed training actions are the following:

- **UF0321:** Computing applications in spreadsheets (2)
- **RD1544/07** Acting and training protocols for the passage's vessel and the training for the marine enterprises' personnel that serve in ports' terminals for the support on the disabled (no access level)
- **UF0061:** Drinks and fast food preparation and service inside the bar. (1)
- **MF0085 3.** Control and vigilance of the hunting and fishing resources' use (3)

The training actions will be developed between March and June 2016, not being possible to attach, in the elaboration moment of the present report, an exact timing for their development.

With the decision of the given actions, it was supposed to make a sampling in order to value its effectiveness by considering three parameters:

- Job Position to which is directed to;
- Required qualification level;
- Economic Activity.

In the continued detailed tables, it is reflected the relation of the selected training with these parameters.

- **JOB POSITION to which is directed to;**

The analysed job positions are:

1. - Ship-owner
2. - Skipper and sailor
3. - Ship's Engineer

Job position	RD1544/07	UF0061 Drinks and fast food preparation and service inside the bar.	UF0321 Computing applications in spreadsheets	MF0085_3. Control and vigilance of the hunting and fishing resources' use
1.- Ship-owner				
2.- Skipper and sailor				
3.- Ship's Engineer				

- **Required qualification level**

The qualification levels refer to the ones established by the European Qualifications Framework (EQF), according to the grades of knowledge, initiative, autonomy and the responsibility needed to fulfil said working activity.

Level 1: Basic skills required to carry out simple tasks. Limited knowledge and capacities.

Level 2: Competence in certain activities that can be fulfilled with autonomy. Ability to use proper instruments and techniques. Knowledge of the technical and scientific basis of the processed activity.

Level 3: Competence to accomplish tasks and solve problems by selecting and applying basic methods, tools, materials and information with autonomy.

Access training level	RD1544/07	UF0061 Drinks and fast food preparation and service inside the bar.	UF0321 Computing applications in spreadsheets	MF0085_3. Control and vigilance of the hunting and fishing resources' use

No level required				
Level 1				
Level 2				
Level 3				

• **ECONOMIC ACTIVITY**

1. - Tourism: leisure and tourism services. Recreational fishing and Recreational Diving.
2. - Waste: Lost fishing gear collection.
3. - Waste: Marine litter collection
4. - Environment: Marine data collection.

ACTIVITY	RD1544/07	UF0061 Drinks and fast food preparation and service inside the bar.	UF0321 Computing applications in spreadsheets	MF0085_3. Control and vigilance of the hunting and fishing resources' use
1				
2				
3				
4				

6.2 Training actions planning.

The next table show the timetable of the training activities carried out.

TRAINING ACTION	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12
RD1544/07												
UF0061												
UF0321												
MF0085_3												

RD1544/07 13 HOURS Disabled support in Passage Vessels.

UF0061 60 HOURS Drinks and fast food preparation and service inside the bar.

UF0321 50 HOURS Computing applications in spreadsheets

MF0085_3 70 HOURS Control and vigilance of the hunting and fishing resources' exploitation

6.3 Indicators.

ID	Indicator	Target	Value at the end of the project
Indicators for Operational activities at sea:			
ID-OA-2	Number of fishermen to whom the training activities have been addressed	10	10
ID- DW-5	Number of training activities.	4	4
	Number of the given training modules	4	4
	Number of total training hours.	175	175
	Number of training hours for each alternative activity	40	40

7 Annexed documents.

Annex	Description	File Name
Annex 1	Description of general and specific competences either imperative or secondary for each job (Ship-owner, Skipper-Sailor and Ship's Engineer).	New professional skills for the leisure and tourism activities
Annex 2	Summary of the Training Modules either imperative or secondary for each job (Ship-owner, Skipper-Sailor and Ship's Engineer).	Training needs for the leisure and tourism activity
Annex 3	Description of general competences either imperative or secondary for each job (Ship-owner, Skipper-Sailor and Ship's Engineer).	New professional skills for Marine litter collection
Annex 4	Summary of the Training Modules either imperative or secondary for each job (Ship-owner, Skipper-Sailor and Ship's Engineer).	Training needs for the marine litter collection activity
Annex 5	Description of general and specific competences either imperative or secondary for each job (Ship-owner, Skipper-Sailor and Ship's Engineer).	New professional skills for the lost fishing gear collection
Annex 6	Summary of the Training Modules either imperative or secondary for each job (Ship-owner, Skipper-Sailor and Ship's Engineer).	Training needs for the lost fishing gear collection activity
Annex 7	Description of general competences either imperative or secondary for each job (Ship-owner, Skipper-Sailor and Ship's Engineer).	New professional skills for the marine data collection and marine ecosystem observation
Annex 8	Summary of the Training Modules either imperative or secondary for each job (Ship-owner, Skipper-Sailor and Ship's Engineer).	Training needs for the environmental activities: the marine data collection and marine ecosystem observation

Table 13. Annex list

Annex 1. New professional skills for the leisure and tourism activities

ECONOMIC ACTIVITY	1 – Leisure and tourism activities
JOB POSITION	1 - Ship-owner
GENERAL COMPETENCES	
Running enterprising initiatives of small businesses or micro-enterprises, as well as planning and implementing business area strategies, programming activities, managing people, organizing and controlling material resources, the economic-financial operations and developing the commercialization and sale of touristic products and services, making use of computing and telematics sources, managing with quality and environmental protection rules, all of it assuring the prevention of working risks and using management or consultancy services when the activity's complexity requires, with the purpose of guaranteeing the achievement of their enterprising objectives and the compliance of the current regulations.	
SPECIFIC COMPETENCES	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity	
UC0233_2	Managing office applications for the information and documentation management (partial).
2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development	
UC1057_2:	Communicate in English, with an independent user level, in the touristic activities.
UC1792_2	Managing the working risks' prevention in small businesses.
UC0266_3	Selling touristic services and trips.
UC1075_3:	Create, promote and manage local services and touristic products.
UC2005_2:	Offering passengers proper conveyance services.
3. - Secondary: those that are not considered essential for the development of the activity.	
UC1788_3	Planning initiatives and enterprising activities in small businesses or micro-enterprises
UC1789_3	Running and controlling the daily enterprising activity and resources of small business and micro-enterprises
UC1790_3	Commercialize products and services in small businesses and micro-enterprises
UC1791_3	Fulfil the administrative and economic-financial managements in small businesses or micro-enterprises
UC1070_3:	Interpret natural spaces and other goods of natural interest in the field of action towards tourists and visitors.

Table 14 New professional skills for the Leisure and Tourism activities- Ship-owner.

ECONOMIC ACTIVITY	1 - Leisure and tourism activities.
JOB POSITION	2 - Skipper and sailor

GENERAL COMPETENCES	
<p>Develop the reception and landscape attention activities in passenger conveyance according to the specifications from the company or enterprise that borrows the service and informing and interpreting the heritage, the goods of natural and cultural interest and other touristic resources in a specific field of action towards tourists and visitors, in an attractive way, interacting with them and awaken their interest, as well as providing services of accompaniment and assistance, using, when necessary, the English language and/or other foreign language, in a way that they feel like they're being helped in all moments, that they satisfy their information expectations and ludic benefit and that the company service entity's objectives are accomplished.</p>	
SPECIFIC COMPETENCES	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity	
UC1637_2 (Partial)	Fulfilling hyperbaric interventions by using an automatic diving system and/or a semi-automatic system, breathing air or nitrox until a maximum pressure of five atmospheres.
UC0272_2	Assist as a first participant in case of accident or emergency situation (diving).
UC0255_1 (Partial)	Execute basic provisioning operations, pre elaboration and culinary conservation.
UC0806_3 (Partial)	Develop environmental educational programs and facilitate educative processes.
2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development	
UC1637_2 (complete)	Fulfilling hyperbaric interventions by using an automatic diving system and/or a semi-automatic system, breathing air or nitrox until a maximum pressure of five atmospheres.
UC1057_2	Communicate in English, with an independent user level, in the touristic activities.
UC2005_2 (Partial)	Offer passengers proper conveyance services.
UC0256_1 (Partial)	Assist in the culinary elaboration and fulfil and present simple preparations.
UC0257_1 (Partial)	Bar-restaurant basic service.
UC0258_1 (Partial)	Execute basic provisioning operations, and prepare and present simple drinks and fast food.
UC1209_1	Fulfil auxiliary operations with ICT.
UC1208_1	Fulfil auxiliary operations in micro-computing maintenance systems.
UC0806_3 (Partial)	Develop environmental educational programs and facilitate educative processes.
3. - Secondary: those that are not considered essential for the development of the activity.	
UC1639_2	Lead a team of sportive divers during a hyperbaric intervention until five atmospheres.
UC1638_2	Participate in the organization, to ensure security, and to set underwater itineraries in Recreational Diving operations.
UC1070_3:	Interpret natural spaces and other goods of natural interest in the field of action towards tourists and visitors.

UC0255_1 (complete)	Execute basic provisioning operations, pre elaboration and culinary conservation
UC0806_3 (complete)	Develop environmental educational programs and facilitate educative processes
UC0256_1 (complete)	Assist in the culinary elaboration and fulfil and present simple preparations
UC0257_1 (complete)	Bar-restaurant basic service
UC0258_1 (complete)	Execute basic provisioning operations, and prepare and present basic drinks and fast food.

Table 15 New professional skills for Leisure and tourism activities – Skipper and sailor.

ECONOMIC ACTIVITY	1 - Leisure and tourism activities.
JOB POSITION	3 - Ship's Engineer
GENERAL COMPETENCES	
Develop the passage attention activities in passenger conveyance according to the specifications from the service borrowing company or enterprise and inform and interpret the heritage, the goods of natural interest, and other touristic resources in a specific way of acting towards tourists and visitors, in an attractive way, interacting with them and awaken their interest, as well as providing services of accompaniment and assistance, using, when necessary, the English language and/or other foreign language, in a way that they feel like they're being helped in all moments, that they satisfy their information expectations and ludic benefit and that the company service entity's objectives are accomplished.	
SPECIFIC COMPETENCES	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity	
UC0272_2:	Assist as a first participant in case of accident or emergency situation (diving).
UC1208_1	Fulfil auxiliary operations in micro-computing maintenance systems.
UC0806_3 (Partial)	Develop environmental educational programs and facilitate educative processes.
2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development	
UC1057_2:	Communication in English, with an independent user level, in the touristic activities.
UC0806_3 (Partial)	Develop environmental educational programs and facilitate educative processes.
UC1209_1	Fulfil auxiliary operations with ICT.
UC0083_3 (Partial)	Control and vigilance of natural spaces and their public use.
3. - Secondary: those that are not considered essential for the development of the activity.	
UC0806_3 (Complete)	Develop environmental educational programs and facilitate educative processes
UC0083_3 (Complete)	Control and vigilance of natural spaces and their public use.

Table 16 New professional skills for Leisure and tourism activities - And Ship's Engineer.

Annex 2. Training needs for the leisure and tourism activity.

Training modules for each job		
ACTIVITY	Leisure and tourism activities	
PRIORITY	Imperatives (to fulfil before starting)	
SHIP-OWNER	SKIPPER/SAILOR	SHIP'S ENGINEER
<p>MF0233_2 Office (partial) - UF0319: Operative system, Information Search: Internet/Intranet and Email - 30 h</p> <p>MF0233_2 Office (partial) - UF0320: Computing applications in text processing - 30 h</p> <p>MF0233_2 Office (partial) - UF0321: Computing applications in spreadsheets - 50 h</p>	<p>MF1637_2 Air or nitrox immersions by using an automatic diving system and/or a semi-automatic diving system until a maximum pressure of five atmospheres. (Partial) – Diver 1 star FEFAS-CMAS + practical lessons – 60 h.</p> <p>MF1637_2 Air or nitrox immersions by using an automatic diving system and/or a semi-automatic diving system until a maximum pressure of five atmospheres. (Partial) – Basic life support. - 3 h</p> <p>MED-C102 First aid. (Diving) - 30 h</p> <p>MF0255_1 Culinary provisioning, pre elaboration and conservation (partial). – UF0053: regulation application and hygienic-sanitary conditions in caterings – 30 h</p> <p>IMOCM1.28 - Crowd control, passenger security and security training for the personnel that proposes a direct service towards passengers for their destined places. – 32 h.</p> <p>RD1544/07 - Acting and training protocols for the passage vessels' crew and the personnel training in the marine enterprises that provide service in the ports' terminals for the disabled's attention. – 13 h</p> <p>MF0806_3 Environmental educational programs (Partial) - UF0740: Environmental educational programs and activities realization - 40 h</p>	<p>MED-C102 First aid (Diving)- 30 h</p> <p>MF1208_1 Auxiliary maintenance operations of micro-computing systems - - 70 h</p> <p>MF0806_3 Environmental educational programs (partial) - UF0740: Environmental educational programs and activities realization - 40 h</p>
PRIORITY	Imperatives (to fulfil during the first year)	
SHIP-OWNER	SKIPPER/SAILOR	SHIP'S ENGINEER

<p>MF1057_2 Professional English for tourism- - 90 h</p> <p>MF1792_2 Management of the working risks' prevention in small businesses - - 60 h</p> <p>MF2005_2 Passenger support in conveyance - - 60 h</p> <p>MF1075_3 Local touristic products and services – UF0083: product design and local touristic services – 90 h.</p> <p>MF1075_3 Local touristic products and services - UF0084: Promotion and commercialization of local touristic products and services – 90 h.</p> <p>MF0266_3 Promotion and sale of touristic services- UF0073: Products, services and touristic destinations - 90 h</p> <p>MF0266_3 Promotion and sale of touristic services- UF0078: Advice, sale and commercialization of touristic products and services – 90 h.</p> <p>MF0266_3 Promotion and sale of touristic services- UF0079: Management of Global distribution systems (GDS) – 40 h.</p> <p>MF0266_3 Promotion and sale of touristic services- UF0042: Customer communication and service in hotel industry and tourism – 30 h.</p> <p>MF0233_2 Office (completes the MF) - UF0322: Computing applications in Related Databases - 50 h</p> <p>MF0233_2 Office (completes the MF) - UF0323: Computing applications for presentations: Information charts - 30 h</p>	<p>MF1637_2 Air or nitrox immersions by using an automatic diving system and/or a semi-automatic diving system until a maximum pressure of five atmospheres. (Completes the given part in Itinerary 1) – 2 star diver FEDAS-CMAS + practical lessons access - 55 h.</p> <p>MF1637_2 Air or nitrox immersions by using an automatic diving system and/or a semi-automatic diving system until a maximum pressure of five atmospheres. (Completes the given part in Itinerary 1) - Oxygen administration - 4 h</p> <p>MF1637_2 Air or nitrox immersions by using an automatic diving system and/or a semi-automatic diving system until a maximum pressure of five atmospheres. (Completes the given part in Itinerary 1)- 3 star diver FEDAS-CMAS + practical lessons access. - 118 h</p> <p>MF1057_2 Professional English for tourism - - 90 h</p> <p>MF2005_2 Passenger support in conveyance - - 60 h</p> <p>MF0256_1 Basic culinary elaboration (partial) - UF0056: Fulfilment of basic and elemental kitchen elaborations and culinary elaboration assistance – 90 h.</p> <p>MF0257_1 Bar-restaurant basic service. (partial) - UF0059: Basic food and drink service and post-service tasks in the restaurant. – 60 h.</p> <p>MF0258_1 Provisioning, drinks and fast food. (Partial) - UF0061: Drinks and fast food preparation and service inside the bar. - 60 h</p> <p>MF1209_1 Auxiliary operations with ICT - - 90 h</p>	<p>F1057_2 Professional English for tourism - 90 h</p> <p>MF1209_1 Auxiliary operations with ICT - 90 h</p> <p>MF0806_3 Environmental educational programs (Partial) - UF0738: Environmental education and application fields. - 40 h</p> <p>MF0083_3 Public use activities and environmental protection - UF1263: Control and vigilance of waste and/or spilled. - 50 h</p> <p>MF0085_3. Control and vigilance of the hunting and fishing resources' use - - 70 HOURS</p>
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	<p>MF1208_1 Auxiliary operations with micro-computing maintenance systems - - 70 h.</p> <p>MF0806_3 Environmental educational programs (Partial) - UF0738: Environmental education and application fields. - 40 h</p> <p>MF0255_1 Culinary provisioning, pre elaboration and conservation. (completes the MF) - UF0054: Provisioning raw materials in the kitchen. - 30 h</p> <p>MF0255_1 Culinary provisioning, pre elaboration and conservation. (completes the MF) - UF0055: Culinary pre elaboration and conservation - 60 h</p> <p>MF0257_1 Bar-restaurant basic service. (Complete MF) - UF0058: Uso de la dotación básica del restaurante y asistencia en el pre servicio. - 30 h</p> <p>MF0258_1 Fast food and drinks provisioning. (Completes the MF) - UF0060: Food and drink provisioning and storage inside the bar – 30 h.</p> <p>MF0085_3. Control and vigilance of the hunting and fishing resources' use - - 70 HOURS</p>	
PRIORITY	Secondary	
SHIP-OWNER	SKIPPER/SAILOR	SHIP'S ENGINEER
<p>MF1789_3 Management of the corporate activity of small businesses or micro-enterprises - - 90 h</p> <p>MF1790_3 Commercializing products and services in small businesses or micro-enterprises - - 90 h</p> <p>MF1070_3 Natural-touristic resources - - 150 h</p> <p>MF1788_3 Planning and enterprising initiative in small businesses or micro-enterprises - UF1818: Enterprising attitude and business opportunities - 40 h</p>	<p>MED-ASBD102 Natural surroundings of Recreational Diving - - 10 h.</p> <p>MED-ASBD103 Organizing activities of Recreational Diving's discovery and conduction - - 30 h</p> <p>MED-C101 Sports behaviour bases - - 20 h.</p> <p>MED-C103 Adapted physical activity and disability - - 5 h</p> <p>MED-ASBD104 04- Underwater conduction - - 35 h</p> <p>MED-C104 Sports organization - - 5 h</p>	<p>MF0806_3 Environmental educational programs - UF0739: Heritage interpretation as a communication and management strategy. - 40 h</p> <p>MF0083_3 Public use activities and environmental protection (Completes the MF) - UF1261: Public use control in the natural and rural places. - 60 h</p> <p>MF0083_3 Public use activities and environmental protection (Completes the MF) - UF1262: Management procedures for the control and protection of the environment. - 70 h</p>

<p>MF1788_3 Planning and enterprising initiative in small businesses or micro-enterprises - UF1819: Project and viability of the business or micro-enterprise - 40 h</p> <p>MF1788_3 Planning and enterprising initiative in small businesses or micro-enterprises - UF1820: Micro-enterprise's marketing and business plan - 40 h</p> <p>MF1791_3 Administrative and economic-financial management of small businesses or micro-enterprises - UF1821 : To start and finance small businesses or micro-enterprises - 60 h</p> <p>MF1791_3 Administrative and economic-financial management of small businesses or micro-enterprises - UF1822 : Accountable, fiscal and working management in small businesses or micro-enterprises - 60 h</p>	<p>MED-ASBD105 05- Practical training - - 150 h</p> <p>MF1070_3 Natural-touristic resources - - 150 h</p> <p>MF0256_1 Basic culinary elaboration (completes the MF) - UF0057: Preparing mixed dishes and appetizers - 60 h</p> <p>MF0806_3 Environmental educational programs (completes the MF) - UF0739: Heritage interpretation as a communication and management strategy. - 40 h</p>	
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Table 17 Summary of the training for Leisure and Tourism activities.

Annex 3. New professional skills for the Marine Litter Collection.

ECONOMIC ACTIVITY	2 - Marine litter collection.
JOB POSITION	1 - Ship-owner
GENERAL COMPETENCES	
Running enterprising initiatives of small businesses or micro-enterprises, as well as planning and implementing business area strategies, programming activities, managing people, organizing and controlling material resources, the economic-financial operations and developing the commercialization and sale of touristic products and services, making use of computing and telematics sources, managing with quality and environmental protection rules, all of it assuring the prevention of working risks and using management or consultancy services when the activity's complexity requires, with the purpose of guaranteeing the achievement of their enterprising objectives and the compliance of the current regulations.	
SPECIFIC COMPETENCES	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity	
UC0233_2 (partial)	Managing office applications in the information and documentation management.
2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development	
UC1792_2	Managing the working risks' prevention in small businesses
UC0233_2 (complete)	Managing office applications in the information and documentation management.
3. - Secondary: those that are not considered essential for the development of the activity.	
UC1788_3	Planning initiatives and enterprising activities in small businesses or micro-enterprises
UC1789_3	Running and controlling the daily enterprising activity and resources of small business and micro-enterprises
UC1790_3	Commercialize products and services in small businesses and micro-enterprises
UC1791_3	Fulfil the administrative and economic-financial managements in small businesses or micro-enterprises

Table 18 New professional skills for the marine litter collection – Ship-owner.

ECONOMIC ACTIVITY	2 - Marine litter collection
JOB POSITION	2 - Skipper/Sailor
GENERAL COMPETENCES	
To control and protect the environment, guarding the respect for the current regulations, fulfilling operations of environmental control and vigilance and guarding the waste management itself.	
SPECIFIC COMPETENCES	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity	

UC0083_3	Control and vigilance of the natural spaces and their public use.
2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development	
UC0806_3 (partial)	Develop environmental educational programs and facilitate educative processes
3. - Secondary: those that are not considered essential for the development of the activity.	
UC0806_3 (complete)	: Develop environmental educational programs and facilitate educative processes

Table 19 New professional skills for the marine litter collection – Skipper and sailor.

ECONOMIC ACTIVITY	2 - Marine litter collection.
JOB POSITION	3 – Ship's Engineer
GENERAL COMPETENCES	
To control and protect the environment, guarding the respect for the current regulations, fulfilling operations of environmental control and vigilance and guarding the waste management itself.	
SPECIFIC COMPETENCES	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity	
UC0083_3	Control and vigilance of the natural spaces and their public use.
2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development	
UC0806_3 (partial)	Develop environmental educational programs and facilitate educative processes
3. - Secondary: those that are not considered essential for the development of the activity.	
UC0806_3 (complete)	Develop environmental educational programs and facilitate educative processes

Table 20 New professional skills for the marine litter collection– Ship's Engineer.

Annex 4. Training needs for marine litter collection activities.

Training modules for each job		
ACTIVITY	Marine litter collection	
PRIORITY	Imperatives (to fulfil before starting)	
SHIP-OWNER	SKIPPER/SAILOR	SHIP'S ENGINEER
MF0233_2 Office (partial) - UF0319: Operative system, Information Search: Internet/Intranet and Email - 30 h MF0233_2 Office (partial) - UF0320: Computing applications in text processing - 30 h MF0233_2 Office (partial) - UF0321: Computing applications in spreadsheets - 50 h	MF0083_3 Public use activities and environmental protection (Partial) - UF1261: Public use control in the natural and rural places. - 60 h MF0083_3 Public use activities and environmental protection (Partial) - UF1262: Management procedures for the control and protection of the environment. - 70 h MF0083_3 Public use activities and environmental protection (Partial) - UF1263: Control and vigilance of waste and/or spilled. - 50 h	MF0083_3 Public use activities and environmental protection (Partial) - UF1261: Public use control in the natural and rural places. - 60 h MF0083_3 Public use activities and environmental protection (Partial) - UF1262: Management procedures for the control and protection of the environment. - 70 h MF0083_3 Public use activities and environmental protection (Partial) - UF1263: Control and vigilance of waste and/or spilled. - 50 h
PRIORITY	Imperatives (to fulfil before starting)	
SHIP-OWNER	SKIPPER/SAILOR	SHIP'S ENGINEER
MF1792_2 Management of the working risks' prevention in small businesses - - 60 HOURS MF0233_2 Office (completes the MF) - UF0322: Computing applications in Related Databases - 50 HOURS MF0233_2 Office (completes the MF) - UF0323: Computing applications for presentations: Information charts - 30 HOURS	MF0806_3 Environmental educational programs (partial) - UF0738: Environmental education and application fields - 40 HOURS MF0085_3. Control and vigilance of the hunting and fishing resources' use - - 70 HOURS	MF0806_3 Environmental educational programs (partial) - UF0738: Environmental education and application fields. - 40 HOURS MF0085_3. Control and vigilance of the hunting and fishing resources' use - - 70 HOURS
PRIORITY	Secondary.	
SHIP-OWNER	SKIPPER/SAILOR	SHIP'S ENGINEER
MF1788_3 Planning and enterprising initiative in small businesses or micro-enterprises - UF1818: Enterprising attitude and business opportunities - 40 h MF1788_3 Planning and enterprising initiative in small businesses or micro-enterprises - UF1819: Project and viability of the business or micro-enterprise - 40 h MF1788_3 Planning and enterprising initiative in small	MF0806_3 Environmental educational programs (completes the MF)) - UF0739: Heritage interpretation as a communication and management strategy. - 40 h MF0806_3 Environmental educational programs (completes the MF)) - UF0740: Environmental educational programs and activities realization - 40 h	MF0806_3 Environmental educational programs (completes the MF) - UF0739: Heritage interpretation as a communication and management strategy. - 40 h MF0806_3 Environmental educational programs (completes the MF) - UF0740: Environmental educational programs and activities realization - 40 h

<p>businesses or micro-enterprises - UF1820: Micro-enterprise's marketing and business plan - 40 h</p> <p>MF1789_3 Management of the corporate activity of small businesses or micro-enterprises - - 90 h</p> <p>MF1790_3 Commercializing products and services in small businesses or micro-enterprises - - 90 h</p> <p>MF1791_3 Administrative and economic-financial management of small businesses or micro-enterprises - UF1821 : To start and finance small businesses or micro-enterprises - 60 h</p> <p>MF1791_3 Administrative and economic-financial management of small businesses or micro-enterprises - UF1822 : Accountable, fiscal and working management in small businesses or micro-enterprises - 60 h</p>	<p>MF0085_3. Control and vigilance of the hunting and fishing resources' use - - 70 HOURS</p>	<p>MF0085_3. Control and vigilance of the hunting and fishing resources' use - - 70 HOURS</p>
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Table 21 Summary for the marine litter collection training.

Annex 5. New professional skills for lost fishing gear collection.

ECONOMIC ACTIVITY	3 - Lost fishing gear collection.
JOB POSITION	1 - Ship-owner
GENERAL COMPETENCES	
Running enterprising initiatives of small businesses or micro-enterprises, as well as planning and implementing business area strategies, programming activities, managing people, organizing and controlling material resources, the economic-financial operations and developing the commercialization and sale of touristic products and services, making use of computing and telematics sources, managing with quality and environmental protection rules, all of it assuring the prevention of working risks and using management or consultancy services when the activity's complexity requires, with the purpose of guaranteeing the achievement of their enterprising objectives and the compliance of the current regulations.	
SPECIFIC COMPETENCES	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity	
UC0233_2 (partial)	Managing office applications in the information and documentation management.
2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development	
UC1792_2	Managing the working risks' prevention in small businesses
UC0233_2 (complete)	Managing office applications in the information and documentation management.
3. - Secondary: those that are not considered essential for the development of the activity.	
UC1788_3	Planning initiatives and enterprising activities in small businesses or micro-enterprises
UC1789_3	Running and controlling the daily enterprising activity and resources of small business and micro-enterprises
UC1790_3	Commercialize products and services in small businesses and micro-enterprises
UC1791_3	Fulfil the administrative and economic-financial managements in small businesses or micro-enterprises

Table 22 New professional skills for Lost fishing gear collection – Ship-owner.

ECONOMIC ACTIVITY	3 - Lost fishing gear collection.
JOB POSITION	2 - Skipper and sailor
GENERAL COMPETENCES	
To control and protect the environment, guarding the respect for the current regulations, fulfilling operations of environmental control and vigilance and guarding the waste management itself.	
SPECIFIC COMPETENCES	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity	

UC0083_3	Control and vigilance of the natural spaces and their public use.
2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development	
UC0806_3 (partial)	Develop environmental educational programs and facilitate educative processes
3.- Secondary: those that are not considered essential for the development of the activity.	
UC0806_3 (complete)	Develop environmental educational programs and facilitate educative processes

Table 23 New professional skills for Ia Lost fishing gear collection – Skipper and sailor.

ECONOMIC ACTIVITY	3 - Lost fishing gear collection.
JOB POSITION	3 - Ship's Engineer
GENERAL COMPETENCES	
To control and protect the environment, guarding the respect for the current regulations, fulfilling operations of environmental control and vigilance and guarding the waste management itself.	
SPECIFIC COMPETENCES	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity	
UC0083_3	Control and vigilance of the natural spaces and their public use.
2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development	
UC0806_3 (partial)	Develop environmental educational programs and facilitate educative processes
3. - Secondary: those that are not considered essential for the development of the activity.	
UC0806_3 (complete)	Develop environmental educational programs and facilitate educative processes

Table 24 New professional skills for Lost fishing gear collection –Ship's Engineer.

Annex 6. Training needs for the Marine litter collection activity

Training modules for each job		
ACTIVITY	Lost fishing gear collection	
PRIORITY	Imperatives (to fulfil before starting)	
SHIP-OWNER	SKIPPER/SAILOR	SHIP'S ENGINEER
MF0233_2 Office (partial) - UF0319: Operative system, Information Search: Internet/Intranet and Email - 30 h MF0233_2 Office (partial) - UF0320: Computing applications in text processing - 30 h MF0233_2 Office (partial) - UF0321: Computing applications in spreadsheets - 50 h	MF0083_3 Public use activities and environmental protection - UF1261: Public use control in the natural and rural places. - 60 h MF0083_3 Public use activities and environmental protection - UF1262: Management procedures for the control and protection of the environment. - 70 h MF0083_3 Public use activities and environmental protection - UF1263: Control and vigilance of waste and/or spilled. - 50 h	MF0083_3 Public use activities and environmental protection - UF1261: Public use control in the natural and rural places. - 60 h MF0083_3 Public use activities and environmental protection - UF1262: Management procedures for the control and protection of the environment. - 70 h MF0083_3 Public use activities and environmental protection - UF1263: Control and vigilance of waste and/or spilled. - 50 h
PRIORITY	Imperatives (to fulfil during the first year).	
SHIP-OWNER	SKIPPER/SAILOR	SHIP'S ENGINEER
MF1792_2 Management of the working risks' prevention in small businesses - - 60 HOURS MF0233_2 Office (completes the MF) - UF0322: Computing applications in Related Databases - 50 HOURS MF0233_2 Office (completes the MF) - UF0323: Computing applications for presentations: Information charts - 30 HOURS	MF0806_3 Environmental educational programs (partial) - UF0738: Environmental education and application fields. - 40 HOURS MF0085_3. Control and vigilance of the hunting and fishing resources' use - - 70 HOURS	MF0806_3 Environmental educational programs (partial) - UF0738: Environmental education and application fields - 40 HOURS MF0085_3. Control and vigilance of the hunting and fishing resources' use - - 70 HOURS
PRIORITY	Secondary.	
SHIP-OWNER	SKIPPER/SAILOR	SHIP'S ENGINEER
MF1788_3 Planning and enterprising initiative in small businesses or micro-enterprises - UF1818: Enterprising attitude and business opportunities - 40 h MF1788_3 Planning and enterprising initiative in small businesses or micro-enterprises - UF1819: Project and viability of the business or micro-enterprise - 40 h MF1788_3 Planning and enterprising initiative in small	MF0806_3 Environmental educational programs (completes the MF) - UF0739: Heritage interpretation as a communication and management strategy. - 40 h MF0806_3 Environmental educational programs (completes the MF) - UF0740: Environmental educational programs and activities realization - 40 h	MF0806_3 Environmental educational programs (completes the MF) - UF0739: Heritage interpretation as a communication and management strategy. - 40 h

<p>businesses or micro-enterprises - UF1820: Micro-enterprise's marketing and business plan - 40 h</p> <p>MF1789_3 Management of the corporate activity of small businesses or micro-enterprises - - 90 h</p> <p>MF1790_3 Commercializing products and services in small businesses or micro-enterprises - - 90 h</p> <p>MF1791_3 Administrative and economic-financial management of small businesses or micro-enterprises - UF1821 : To start and finance small businesses or micro-enterprises - 60 h</p> <p>MF1791_3 Administrative and economic-financial management of small businesses or micro-enterprises - UF1822 : Accountable, fiscal and working management in small businesses or micro-enterprises - 60 h</p>		
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Table 25 Summary of the training for lost fishing gear collection

Annex 7. New professional’s skills for marine data collection activities.

ECONOMIC ACTIVITY	4 - Environment: sea and ecosystem sighting, monitoring protected marine areas
JOB POSITION	1 - Ship-owner.
GENERAL COMPETENCES	
Running enterprising initiatives of small businesses or micro-enterprises, as well as planning and implementing business area strategies, programming activities, managing people, organizing and controlling material resources, the economic-financial operations and developing the commercialization and sale of touristic products and services, making use of computing and telematics sources, managing with quality and environmental protection rules, all of it assuring the prevention of working risks and using management or consultancy services when the activity’s complexity requires, with the purpose of guaranteeing the achievement of their enterprising objectives and the compliance of the current regulations.	
SPECIFIC COMPETENCES	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity	
UC0233_2 (partial)	Managing office applications in the information and documentation management.
2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year’s activity development	
UC1792_2	Managing the working risks’ prevention in small businesses
UC0233_2 (complete)	Managing office applications in the information and documentation management.
3. - Secondary: those that are not considered essential for the development of the activity.	
UC1788_3	Planning initiatives and enterprising activities in small businesses or micro-enterprises
UC1789_3	Running and controlling the daily enterprising activity and resources of small business and micro-enterprises
UC1790_3	Commercialize products and services in small businesses and micro-enterprises
UC1791_3	Fulfil the administrative and economic-financial managements in small businesses or micro-enterprises

Table 26 New professional skills for the Environment: sea and ecosystem sighting, monitoring protected marine areas –Ship-owner.

ECONOMIC ACTIVITY	4 - Environment: sea and ecosystem sighting, monitoring protected marine areas
JOB POSITION	2 – Skippers/sailors
GENERAL COMPETENCES	
To control and protect the environment, guarding the respect for the current regulations, fulfilling operations of environmental control and vigilance and guarding the waste management itself.	

SPECIFIC COMPETENCES	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity	
UC0083_3	Control and vigilance of the natural spaces and their public use.
2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development	
UC0806_3 (partial)	Develop environmental educational programs and facilitate educative processes
3. - Secondary: those that are not considered essential for the development of the activity.	
UC0806_3 (complete)	Develop environmental educational programs and facilitate educative processes

Table 27 New professional skills for the Environment: sea and ecosystem sighting, monitoring protected marine areas –Skipper and sailor.

ECONOMIC ACTIVITY	4 - Environment: sea and ecosystem sighting, monitoring protected marine areas
JOB POSITION	3 - Ship's Engineer
GENERAL COMPETENCES	
To control and protect the environment, guarding the respect for the current regulations, fulfilling operations of environmental control and vigilance and guarding the waste management itself.	
SPECIFIC COMPETENCES	
1.- Imperative (to fulfil before starting): Covering is necessary before starting the activity	
UC0083_3	Control and vigilance of the natural spaces and their public use.
2.- 2.- Imperative (to fulfil during the first year): covering is necessary in the first year's activity development	
UC0806_3 (partial)	Develop environmental educational programs and facilitate educative processes
3. - Secondary: those that are not considered essential for the development of the activity.	
UC0806_3 (complete)	Develop environmental educational programs and facilitate educative processes

Table 28 New professional skills for the Environment: sea and ecosystem sighting, monitoring protected marine areas – Ship's Engineer.

Annex 8. Training needs for the environmental activities: sea and ecosystem observation, monitoring protected marine areas.

Training modules for each job		
ACTIVITY	Marine data collection.	
PRIORITY	Imperatives (to fulfil before starting)	
SHIP-OWNER	SKIPPER/SAILOR	SHIP'S ENGINEER
MF0233_2 Office (partial) - UF0319: Operative system, Information Search: Internet/Intranet and Email - 30 h MF0233_2 Office (partial) - UF0320: Computing applications in text processing - 30 h MF0233_2 Office (partial) - UF0321: Computing applications in spreadsheets - 50 h	MF0083_3 Public use activities and environmental protection - UF1261: Public use control in the natural and rural places. - 60 h MF0083_3 Public use activities and environmental protection - UF1262: Management procedures for the control and protection of the environment. - 70 h MF0083_3 Public use activities and environmental protection - UF1263: Control and vigilance of waste and/or spilled. - 50 h	MF0083_3 Public use activities and environmental protection - UF1261: Public use control in the natural and rural places. - 60 h MF0083_3 Public use activities and environmental protection - UF1262: Management procedures for the control and protection of the environment. - 70 h MF0083_3 Public use activities and environmental protection - UF1263: Control and vigilance of waste and/or spilled. - 50 h
PRIORITY	Imperatives (to fulfil during the first year)	
SHIP-OWNER	SKIPPER/SAILOR	SHIP'S ENGINEER
MF1792_2 Management of the working risks' prevention in small businesses - - 60 HOURS MF0233_2 Office (completes the MF) - UF0322: Computing applications in Related Databases - 50 HOURS MF0233_2 Office (completes the MF) - UF0323: Computing applications for presentations: Information charts - 30 HOURS	MF0806_3 Environmental educational programs (partial) - UF0738: Environmental education and application fields. - 40 HOURS MF0085_3. Control and vigilance of the hunting and fishing resources' use - - 70 HOURS	MF0806_3 Environmental educational programs (partial) - UF0738: Environmental education and application fields - 40 HOURS MF0085_3. Control and vigilance of the hunting and fishing resources' use - - 70 HOURS
PRIORITY	Secondary.	
SHIP-OWNER	SKIPPER/SAILOR	SHIP'S ENGINEER
MF1788_3 Planning and enterprising initiative in small businesses or micro-enterprises - UF1818: Enterprising attitude and business opportunities - 40 h MF1788_3 Planning and enterprising initiative in small businesses or micro-enterprises - UF1819: Project and viability of the business or micro-enterprise - 40 h MF1788_3 Planning and enterprising initiative in small	MF0806_3 Environmental educational programs (completes the MF) - UF0739: Heritage interpretation as a communication and management strategy. - 40 h MF0806_3 Environmental educational programs (completes the MF) - UF0740: Environmental educational programs and activities realization - 40 h	MF0806_3 Environmental educational programs (completes the MF) - UF0739: Heritage interpretation as a communication and management strategy. - 40 h MF0806_3 Environmental educational programs (completes the MF) - UF0740: Environmental educational programs and activities realization - 40 h

<p>businesses or micro-enterprises - UF1820: Micro-enterprise's marketing and business plan - 40 h MF1789_3 Management of the corporate activity of small businesses or micro-enterprises - - 90 h MF1790_3 Commercializing products and services in small businesses or micro-enterprises - - 90 h</p>		
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Table 29. Summary of the training needs for the environmental activities: sea and ecosystem observation, monitoring protected marine areas.