





Project MEDGuard.



Deliverable

D2.4 Evaluation of the training actions.

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2	CIFP Hespérides	HESPÉRIDES	ESP	Public
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- Fishermen Brotherhood of Cartagena and Mazarrón.
- Students from the Training course Maritime Transport and deep sea Fishing
- Students from the Training course Hiperbaric and underwater operations.
- Technical University of Cartagena (Underwater vehicles Laboratory)
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Abstract

This document is the deliverable: "D2.4 Evaluation of the training actions" 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. Este 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	Identidades, valores y estrategias alternativas 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 Cost 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.

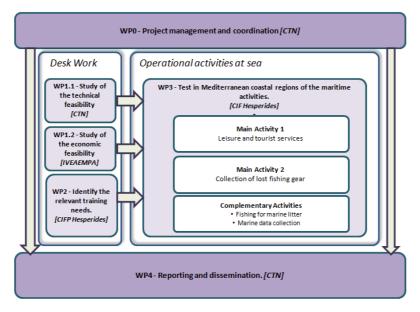


Figure 1. Work Plan Structure

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 substitution 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 results of the training activities fulfilled by the fishermen whose planning and programming are detailed in the deliverable "D2.3 Planning and programming of training activities towards fishermen".

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 alternative activities from 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, and 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 Proposal for the definition of new professional skills to be taken into account by new activities".

In the deliverable "D2.1 Catalogue with the training itineraries for the reorientation of 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.

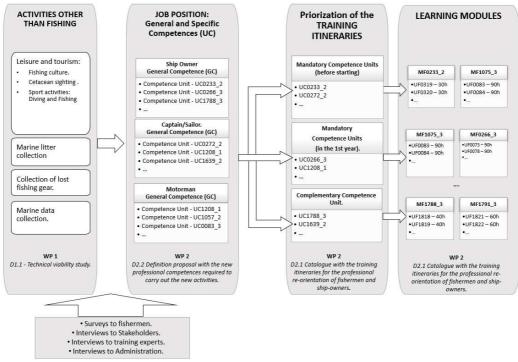


Figure 2. Methodology to identify the general and specific competences for the professional reorientation of fishermen towards alternative activities other than fishing.

The planning of the training actions fulfilled by the Ciudad de Cartagena's crew for the fulfilment of the sea campaigns to analyse the viability of the alternative activities from fishing is gathered in the D2.3.





3.1 Methodology.

The methodology that was employed for the fulfilment of the training activities of the project's participants were described as such:

The procedures will be the organized axis of the learning process.

The student will be the main figure of its own learning process.

The professor will be acting as the process' manager and promoter.

It will be searched for an emulation of good practical lessons, of quality work, of technological update and innovation as learning motivators.

The availability and organization of the spaces and resources is adequate until the end of this programming.

The acquisition and usage of equipment and materials, the shopping and its storage will be fulfilled following the established procedures by the Quality Management implanted in the Centre.

It will not be necessary the acquisition of a specific clothing by the students, and the necessary working teams and individual protection (EPI) will be supplied by the own module professor.

The usage of audio-visuals and ICTs will be inherent to the module's own content.

Text and note book. Being a conciliatory model from others, there was NO book editing of a specified text-. The professor will select text and audio-visual resources that ease the student body the activities' development. Every material will be found available in the public zone of the department's server, so that it may be recognized/consulted by the students.

The quality management will try to integrate itself in the entire process as a guarantor of the good professional pedagogical make.

The methodology will promote the integration of scientific-technological and organizational content and, in addition, will favour the student body the ability to learn for himself and work as a team.

General methodological principals.

It will begin with the previous knowledge of the student body, known, in other ways, by an initial evaluation. The student body always know something, so, it will make them see what they know of what they think they don't know. This way being able to have a bigger motivation by their part:

- 1. It will be promoted the acquisition of a significant learning; from what it has been learned in other subjects.
- 2. The methodology will be: active (both by the teacher and the student body), participative and motivating. The activities will be designed so that the student put into practice the conceptual and attitudinal contents previewed in each UT.
- 3. It will favour the student body's integral development, always having present the immediate incorporation of the working world.
- 4. Teamwork will be fomented.
- 5. It will be maintained a coordination with the teachers from distinct modules.

The themes will be exposed in a simple language, instead of a technical one, so that the student, in his professional future, gets to know the terminology and the argot that it's used in the fields





of the module's own technologies. In the concrete case that we're finding ourselves into, there are a lot of English words that are not usually translated and the student needs to know them and use them.

For the class work, it will be used real material as much as we can and, in other case, an adequate graphic material, like videos, commercial catalogues, simulators, etc., in order for the student to learn the elements just like he will find in reality.

It will be proposed real works so that they're capable of identifying the problems that they will find in their professional future.

They will use technical-commercial information of companies or distributors of the area, for example, asking for budgets of different equipment or services in different companies, in order to make pooling at the end of the process.

An idea of teamwork will be included, designing the works and activities by groups of students (until a maximum of THREE for each activity), although in certain moments there will be demanded an individual work, which they will find after their professional labour (in most cases).

It will be planted practical works based on the order of task execution, the montage accuracy, programming teams and the connections, the verifications and checking of the installed teams.





4 Fulfilled training actions.

Alternative activities other	Priority	Given training modules.			Given training modules. Number of hours/Nu mber of students		Given training modules. hours/Nu mber of		Date
than fishing.		Ship- owner	Skipper- Sailor	Engineer					
Tourism: leisure and tourism services.	Imperative (to fulfil before starting)	UF0321 ¹	RD1544/07 ²		45/10	From 04/04 to 23/05 Days 21/06 23/06 30/06			
Recreational fishing and scuba diving.	Imperative (to fulfil during the first year)		UF0061 ³ MF0085_3 ⁴	MF0085_3 ⁴ .	130/10	From 21/06 to 30/06 From 06/04 to 15/06			
Waste collection	Imperative (to fulfil before starting)	UF0321 ¹			32/10	From 04/04 to 23/05			
	Imperative (to fulfil during the first year)		MF0085_3 ⁴	MF0085_3 ⁴	70/10	From 06/04 to 15/06			
Lost fishing gear	Imperative (to fulfil before starting)	UF0321 ¹			32/10	From 04/04 to 23/05			
collection.	Imperatives (to fulfil during the first year)		MF0085_3 ⁴	MF0085_3 ⁴	70/10	From 06/04 to 15/06			
Monitoring environmental parameters.	Imperatives (to fulfil before starting)	UF0321 ¹			32/10	From 04/04 to 23/05			
	Imperatives (to fulfil during the first year)		MF0085_3 ⁴	MF0085_3 ⁴	70/10	From 04/04 to 23/05			

Table 1 Summary of the programed training actions

¹ Computing information in spreadsheets

² Acting and training protocols of the passage vessels' crew and the personnel training of the marine enterprises that serve the ports' terminals for the disabled's support.

³ Food and drink preparation and service inside the bar.

⁴ Control and vigilance of the use of hunting and fishing resources.





5 Training actions evaluation.

5.1 Evaluation rules.

5.1.1 RD1544 07 Acting protocols for the disabled's support

Inside the course are marked the following objectives:

- Be aware of the needs on maintaining the correct personal hygiene conditions to the
 users, providing that help that is needed according to their needs and the intervention
 plan previously established.
- Carrying out the accompaniment, vigilance and necessary support, assuring that it's
 fulfilled its security and commodity conditions in the framework of personal
 improvement specified in each case.
- Know the needs for the intake and carry out the collection of user elimination, respecting their dietary needs to maintain and / or improve their health and well-being.
- To act according to the established plan, applying accident prevention techniques and, if necessary, first aid.

5.1.2 UF0061: Food and drink preparation and service inside the bar.

Inside the course are marked the following objectives:

- Fulfilling the different cleaning operations, useful equipment set-up, and the management of the restaurant's proper work, respecting the hygienically-sanitary regulations and the received instructions.
- To collaborate in the table and element-support assemblage, as well as on the decoration and feel of the consumed food and drink zone, according with the basic establishment regulations and received instructions.
- To collaborate in the food and drink service according to the received instructions and fulfil said service with autonomy in several catering formulas.
- To fulfil post-service operations according to the received instructions.





5.1.3 UF0321: Computing information in spreadsheets.

Inside the course are marked the following objectives:

- Knowing the surroundings of OpenOffice.org Calc 3.3 and navigate through the distinct application menus.
- Edit, copy or erase the content of the spreadsheet cells of a work book, as a learning preamble of formula, function and format usage of the cells that we will see in the following unities.
- Fulfilling operations with cell ranges.
- Know how to modify the appearance of spreadsheets, as well as its format, style, preset styles, changing a spreadsheet's name, etc.
- Know how to use different formulas and functions that can be applied in spreadsheets, facilitating much of the actions to be fulfilled by the user.
- Insert graphics, images, artistic texts, etc., in a spreadsheet, as a way to represent the introduced date in said sheet.
- Configure a spreadsheet's page, its margins, orientation, etc., as well as learning how to handle the preliminary view, to facilitate the spreadsheet's content impression.
- Working with the used data in a spreadsheet to fulfil diagrams, create lists, using filters, etc.

5.1.4 UC0085_3: Controlling the use of hunting and fishing resources.

Inside the course are marked the following objectives:

- Control and protect the hunting species in terms of freedom and habitat.
- Fulfil the tasks of vigilance, control, tracking and protection of the species in continental waters in terms of freedom, as well as supervise the works related to the improvement of the aquatic space.





5.2 Summary of the training activities.

The activities that have finally been developed had a different participation from the project's members. As it was commented, the schedule establishment and being able to assure the assistance made that not every group were identical.

TRAINING UNITY	STUDENTS
RD1544/07	13
UF0061	9
UF0321	15
UC0085_3	11

5.2.1 Student list.

The students that participated in the distinct training courses are listed:

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
ROCA IGLESIAS, PEDRO JESUS
RODRÍGUEZ DE VIGURI ARROYO, MANUEL DIEGO
ARMERO GARRIGOS, SALVADOR
JUSTICIA ARMERO, OLGA
SEGADE GARCÍA, JUAN MANUEL

5.3 Results.

5.3.1 General observations.

For the development of the training process the students presented an initial reluctance in their participation, it was complicated to search openings where the schedule was compatible for everyone. Especially when the students wouldn't see *a priori* the possible benefit of the training action that they would fulfil.

Inside the project we were able to see how short-duration training activities were developed that would materialize in a couple of weeks, at the same time that actions were developed throughout several months and that required a bigger effort for its ending.

At the time to set out a restructuring of the fishing fleet and with it the specific worker training we have to seriously consider the ability and availability of these in order to develop the training plans that are set out for them.





An important aspect is also to consider the cultural level of departure that presupposes them, since it's an aspect that will determine are the training that it's designed, developed and implemented afterwards.

5.3.2 Module adaptation.

We have to consider that only some of the training unities of the different itineraries were given in the current project. The effectiveness of the given learnings will be evaluated when the participants end the total of the set out itineraries.

However, if we can draw some conclusions of the training actions fulfilled in the framework of the MEDGuard project, which are detailed below.

The training unities that were addressed inside the project were those that bellow are detailed:

RD1544/07 Acting and training protocols of the passage vessels' crew and the training of the marine enterprise's personnel that serve in the ports' terminals for the support of the disabled.

This unity is elemental for the development of the "Tourism: leisure and tourism services. Recreational fishing and scuba diving" activity given the importance the fact of integrating people with distinct ability in the group of possible clients. It proposes to the activity a social and integrative dimension that is valued by all parts.

UF0061: Food and drink preparation and service inside the bar.

This unity acquires a special importance as soon as in the fishing vessel is planted the barrestaurant service. Knowing the catering's procedures and basic techniques allows for a quality service that is appreciated by the possible customers. However, we need to clearly differentiate the type of customer and what are their expectations when they decide to be part of the offered experience. Since that in some cases we will try to approach the stay on board the closest to a daily activity aboard the fishing vessel and in other cases this mentioned aspect will be passed to a second plan given the customer a similar service which he receives inland.

UF0321: Computing information in spreadsheets.

The computing module is one of those that relies a lot in the fishermen's' previous knowledge about computing. Although it's easy to introduce certain concepts with the younger members, it's in certain occasions that the older fishermen have low level of digital abilities and it will be necessary to previously acquire a digital competence level. This aspect should've been contemplated when the training programs are adapted to a certain community.

We need to consider that the addressed module is instrumental and will be necessary to contemplate it with the rest of the planned program so that it acquires value in its context. While it's every important to previously evaluate the Ship-owners' capacity of the fishing vessel that should reconvert to develop its entrepreneur facet inside a sector that is not entirely familiar. While the cost evaluation is similar to the exploitation as a fisherman it's probable that the income ingress requires an important work. For it will be of a vital importance the planted program's adaptation to the peculiarities of the fishing vessel which will extend the restructuring plan.





MF0085 3. Controlling the use of hunting and fishing resources.

This unity assured the fishing professional's profile one of the best locations to reconvert himself as a control and vigilance agent of natural resources. The underlying knowledge about the environment, its ecosystem and what factors affect the same is highly elevated in sea professionals. From knowing how affects the different meteorological situations to species until how they've evolved, deteriorating in some cases or even recovering the environment after different actions of man.

If it's important as in the previous case the adequacy of the contents to the place where the training program will be developed. Given that including in a same administrative region, different ecosystems can be established that should be tackled in the specific training that are given to the fishermen that desire reconvert their activity.

Nonetheless, the experience allowed to confirm that the training in this line allows for a better knowledge and experience transmission that supplies the fisherman's figure of the aspects that the project hopes as a defender of the environment in which develops its professional activity and that allows its economic subsistence without damaging the environmental or integral quality of the ecosystem.

5.3.3 Training actions evaluation.

Facing the training actions evaluation we group the alternative activities other than fishing in two groups:

The first group is constituted by a single activity:

Tourism: leisure and tourism services. Recreational fishing and scuba diving.

The second one, for all training activities related to the defence, protection, vigilance or catering of the marine environment:

Waste collection Lost fishing gear collection. Monitoring environmental parameters.

In the first group, the touristic activity requires from a greater restructuring level of the original activity, the final customer support, making it extremely important the training in this field. We have to consider that the work in the sea is rough and that in many conditions should develop outside of what we know as a comfortable atmosphere. Embarking people outside the sector and in many cases unaware of the most basic aspects of life on board makes it necessary to take special care of these aspects if a tourist activity is to succeed. The training for this activity must take special care with the development of attitudes and a culture of customer service similar to that already established in the services inland and that such good results is given in the national industry.

The second one presents a series of activities more specific to the fishing activity itself, although the economic viability of these activities should be evaluated in another document of this project, it is easier to reconvert to these activities. It is not required direct eye contact with the final customer which simplifies the restructuring.





On the contrary, a knowledge of the activities to be developed and the possible technical complexity of them will be fundamental, however this training is considered simpler and generally available to the fishermen population of the Spanish Mediterranean.





6 Conclusions.

The reconversion of the fishing fleet for the reduction of fishing effort, entails the necessary reorientation of the fishermen for the fulfilment on board of new alternative activities other than fishing. In the framework of the MEDGuard project the fishing vessel Ciudad de Cartagena, an old trawler of 24 m in total length, built in 1996 and reassigned in 2014, serves as a use case to analyse the viability of carrying out fishing activities (leisure and tourism, Waste collection, Lost fishing gear collection y Monitoring environmental parameters).

In this case, the positions that require a professional restructuring are (A) Ship-owner, (B) Boss 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 bosses and Mechanics fulfilling the Waste collection, Lost fishing gear collection and Monitoring environmental parameters activities) and the maximum work schedule of 1660 hours (for the bosses 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 other than fishing.

At this point and pending an economic evaluation would have to consider whether it is more interesting to incorporate personnel already trained specifically in the areas of interest that allows a faster transformation of the activity than if the crews have to develop the previous training plans to its restructuring.

The pilot experience within the project has been able to confirm that the problem of training for the restructuring of the sector leads to a time that must be assumed by those who are going to carry it out. This period of training, depending on the particular situation of each person requires a dedication that in most cases will not allow the development of a paid activity.

The distance training, the training programs in schedules or calendars compatible with its activity should start as soon as possible so that the fleet is ready for the same time.

Especially if it is the tourist activity, since it requires a substantial change in the life on board and the way to exploit it.

In this sense, the training of new generations, as well as the women's image, are aspects that must be considered given that it can allow a better restructuring of the activity, integrating all members of the family and initiating the new generations in the same.





However, it has only been possible to prove the training itinerary in part and on a localized population if it has been possible to obtain evaluations of its effectiveness and have collected elements that allow to value the aspects previously exposed.

Pending from the economic profitability factors the training is necessary, but also considering that requires some time and is submitted to some restrictions which in the restructuring projects must be considered.

The integration of previously qualified personnel that was proposed at the beginning of this section should also be valued, although finally at the national level, specific training plans should be developed for the restructuring activities that were feasible so that specialists trained in the required aspects of the new activity.

Nevertheless, the experience shows that the initiative of pioneered entrepreneurs in the sector allows a faster acceptance of the new activities so it would not be dispensable in future lines of work to develop pilot experiences that would allow to put into practice the results obtained in the present project with special emphasis on those that are more interesting considering all the aspects to evaluate.

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7 Annexed documents.

Annex	Description	Archive's name
Annex 1	Actions carried out within the training itinerary for each of the professions (Ship-owner, Skipper-Sailor y Mechanic) for the Leisure and tourism activity.	Planning and programming of training actions for leisure and tourism activities.
Annex 2	Actions carried out within the training itinerary for each of the professions (Ship-owner, Skipper-Sailor y Mechanic) for the Waste collection activity.	Planning and programming of training actions for the waste collection activity.
Annex 3	Actions carried out within the training itinerary for each of the professions (Ship-owner, Skipper-Sailor y Mechanic) for the Lost fishing gear collection activity.	Planning and programming of training actions for lost fishing gear collection.
Annex 4	Actions carried out within the training itinerary for each of the professions (Ship-owner, Skipper-Sailor y Mechanic) for the Monitoring environmental parameters activity.	Planning and programming of training actions for the environmental parameter monitoring activities.

Table 2. Annex list





Annex 1. Planning and programming of 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 the project.

		1 Leisure and tourism – Spreading of the fish	 ning culture;			
ECONOMIC ACTIVITY		cetacean sighting and sports activities (c	_			
		recreational fishing).				
JOB POSITION		1 Ship-owner				
1 Imperatives (to fulf	il before s	tarting): Necessary to fulfil before starting the ac	tivity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS			
		UF0319: Operative system, Information Search:	30			
		Internet/Intranet and Email				
MF0233_2: Office (partial)	110	UF0320: Computing applications in text editing	30			
		UF0321: Computing information in	50			
		spreadsheets				
TOTAL HOURS:	110					
2 Imperatives (to fulfil during t	he first ye	ear): necessary to fulfil during the first year of the	activity's			
development						
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS			
MF1057_2 Professional English	90		90			
for tourism	30					
MF1792_2 Managing the						
working risk prevention in small	60		60			
businesses			_			
MF2005_2: Passenger support	60		60			
in conveyance		UEO021 Local touristic products and convince				
MF1075_3: Local touristic		UF0083: Local touristic products and services design	90			
products and services	180	UF0084: Promoting and commercializing Local				
products and services		touristic products and services	90			
		UF0073: Products, services and touristic				
		destinations	90			
		UF0078: Advice, sale and commercialization of				
MF0266_3: Promotion and sale	250	touristic products and services	90			
of touristic services	250	UF0079: Management of global distribution	40			
		systems (GDS)	40			
		UF0042: Customer communication and support	30			
		in hotel business and tourism	30			
		UF0322: Computing applications in Related	50			
MF0233_2: Office (completes	80	Database				
the MF)		UF0323: Computing applications for	30			
		presentations: Information charts				
TOTAL HOURS: 720						
3 Secondary: those tha	t are not o	considered essential for the development of the	activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS			
MF1789_3 Business	90		90			





management of small businesses or micro-enterprises			
MF1790_3 Commercialization of products and services in small businesses or microenterprises	90		90
MF1070_3: Natural-touristic resources	150		150
ME1700 2: Enterprising		UF1818: Enterprising attitude and business opportunities	40
MF1788_3: Enterprising planning and initiative of small businesses or micro-enterprises	120	UF1819: Project and viability of the business or micro-enterprise	40
businesses of micro-enterprises		UF1820: Business marketing and planning of the micro-enterprise	40
MF1791_3 Administrative and economic-financial		UF1821 : Start-up and financing of small businesses or micro-enterprises	60
management of small businesses or micro-enterprises	120	UF1822 : Accounting, fiscal and labour management in small businesses or micro-enterprises	60
TOTAL HOURS:	570		

Table 3 Training itinerary for the Ship-owner – Leisure and tourism activity.

		1 Leisure and tourism – Spreading of the fishing culture;		
ECONOMIC ACTIVITY		cetacean sighting and sports activities (diving and		
		recreational fishing).		
JOB POSITION		2 Skipper - Sailor		
1 Imperatives (to fulf	fil before st	tarting): Necessary to fulfil before starting the ac	tivity	
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS	
MF1637_2 Immersions with		1 star diver FEDAS-CMAS + practical lessons	60	
air or nitrox using an				
automatic diving system			3	
and/or a diving semiautomatic	63	Basic life support.		
system until a maximum		basic life support.		
pressure of five atmospheres.				
(Partial)				
MED-C102- First aid. (Diving)	30		30	
MF0255_1: Culinary		UF0053: Implementation of hygienic-sanitary		
provisions, pre-elaboration	30	rules and conditions in restoration.	30	
and conservation. (partial)		rules and conditions in restoration.		
		Crowd control, passenger safety and safety		
IMOCM1.28	32	training for the personnel that proposes a	32	
IIVIOCIVI1.28	32	direct passenger service in their destined	32	
		spaces.		
		Acting and training protocol of the passage		
		vessel's crew and the personnel training of the		
RD1544/07	13	marine enterprises that serve in the port's	13	
		terminals for the attention of the disabled		
		people.		





NATOOOC 2. Fundamental		LIFO740. Due surem and a suine suremental	
MF0806_3: Environmental	40	UF0740: Program and environmental educational activities' realization	40
educational programs (Partial) TOTAL HOURS:	208	educational activities Tealization	
2 Imperatives (to fulfil during	ng the first	year): necessary to fulfil during the first year of t	he activity's
TRAINING ACTION	HOURS	development TRAINING UNITY	HOURS
TRAINING ACTION	HOUKS		HOUKS
MF1637_2 Immersions with air or nitrox using an		2 stars diver FEDAS-CMAS + practical lessons access.	55
automatic diving system		Oxygen administration	4
and/or a diving semiautomatic		Oxygen aummistration	4
system until a maximum	177		
pressure of five atmospheres.		3 stars diver FEDAS-CMAS + practical lessons	118
(To complete the part from		access.	
Itinerary 1.)			
MF1057_2 Professional	90		00
English for tourism	90		90
MF2005_2: Passenger support	60		60
in conveyance	00		00
MF0256_1: Basic culinary		UF0056: Fulfilment of basic and elemental	
elaboration (partial)	90	elaborations in culinary and assisting in the	90
., .		culinary elaboration	
MF0257_1: Basic bar-	60	UF0059: Basic food and drink service and	60
restaurant service. (partial)		post-service tasks in the restaurant.	
MF0258_1: Provisions, drinks and fast food. (Partial)	60	UF0061: Food and drink preparation and service inside the bar.	60
MF1209_1: Auxiliary		service inside the bar.	
operations with ICT	90		90
MF1208 1: Auxiliary			
operations of micro-	70		70
computing maintenance	70		70
systems			
MF0806_3: Environmental	40	UF0738: Environmental education and	40
educational programs (Partial)	40	application fields.	40
MF0085_3. Controlling the			
use of hunting and fishing	70		70
resources.			
TOTAL HOURS:	737		
3 Secondary: those that	at are not c	onsidered essential for the development of the	activity
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MED-ASBD102- Scuba diving's	10		10
natural surroundings.			
MED-ASBD103- Activity	22		2.2
organization of scuba diving's	30		30
discovery and conducting.			
MED-C101- Bases of sports behaviour.	20		20
MED-C103- Adapted physical			
activity and disability.	5		5
MED-ASBD104- Underwater	35		35
Shaci water			





conducting.			
MED-C104- Sports organization.	5		5
MED-ASBD105- Practical training.	150		150
MF1070_3: Natural-touristic resources	150		150
MF0255_1: Culinary	90	UF0054: Provisions in kitchen's raw materials.	30
provisions, pre-elaboration and conservation. (completes the MF)	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 4 Training itinerary for the Skipper / Sailor – Leisure and tourism activity.

ECONOMIC ACTIVITY		 Leisure and tourism – Spreading of the fishing culture; cetacean sighting and sports activities (diving and recreational fishing). 		
JOB POSITION		3 - Mechanic		
1 Imperatives (to ful	fil before st	tarting): Necessary to fulfil before starting the ac	tivity	
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS	
MED-C102- First aid. (Diving)	30		30	
MF1208_1: Auxiliary operations of micro-computing maintenance systems	70		70	
MF0806_3: Environmental educational programs Partial)	40	UF0740: Program and environmental educational activities' realization	40	
TOTAL HOURS:	140			





2 Imperatives (to fulfil during the first year): necessary to fulfil during the first year of the activity's development					
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS		
MF1057_2 Professional English for tourism	90		90		
MF1209_1: Auxiliary operations with 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. Controlling the use of hunting and fishing resources.	70		70		
TOTAL HOURS:	270				
3 Secondary: those that	t are not c	onsidered essential for the development of the a	ctivity		
TRAINING ACTION	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 environment	130	UF1261: Public use control in the natural and rural places.	60		
protection. (Completes the MF)	130	UF1262: Management procedures on the control and protection of the environment.	70		
TOTAL HOURS:	170		•		

Table 5 Training itinerary for the Mechanic – Leisure and tourism activity.

The planned and programmed training actions are:

ECONOMIC ACTIVITY	 Leisure and tourism – Spreading of the fishing culture; cetacean sighting and sports activities (diving and recreational fishing). 			
TRAINING UNITY	TRAINING UNITY HOURS			Date
• RD1544/07 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. (With no access level).	13	Skipper and sailor and Mechanic	10	21-06 23-06 30-06
<u>UF0061</u> : Food and drink preparation and service inside the bar	60	Skipper and sailor	10	21-06 al 30-06
• <u>UF0321</u> : Computing	32	Ship-owner,	10	04-04 al 23-05





information in spreadsheets.				
MF0085_3. Controlling the use of hunting and fishing resources.	70	Skipper and sailor and Mechanic Naval	10	06-04 al 15-06
TOTAL HOURS:	175			

The presentation's schedule is the following.

TRAINING ACTION	M1	M2	М3	M4	M5	M6	M7	M8	M9	M10	M11	M12
RD1544/07												
UF0061												
UF0321												
MF0085_3												

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Annex 2. Planning and programming of training actions for the waste collection activity.

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 the project.

ECONOMIC ACTIVITY		2 - Waste collection.		
JOB POSITION		1 – Ship-owner		
1 Imperatives (to ful	fil before st	tarting): Necessary to fulfil before starting the ac	tivity	
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS	
		UF0319: Operative system, Information Search: Internet/Intranet and Email	30	
MF0233_2: Office (partial)	110	UF0320: Computing applications in text editing	30	
		UF0321: Computing information in spreadsheets	50	
TOTAL HOURS:	110			
2 Imperatives (to fulfil during	ng the first	year): necessary to fulfil during the first year of t	he activity's	
		development		
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS	
MF1792_2 Managing the working risk prevention in small businesses	60		60	
MF0233_2: Office (completes	80	UF0322: Computing applications in Related Database	50	
the MF)	80	UF0323: Computing applications for presentations: Information charts	30	
TOTAL HOURS:	140			
		onsidered essential for the development of the	_	
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS	
MF1788_3: Enterprising		UF1818: Enterprising attitude and business opportunities	40	
planning and initiative of small businesses or micro-	120	UF1819: Project and viability of the business or micro-enterprise	40	
enterprises		UF1820: Business marketing and planning of the micro-enterprise	40	
MF1789_3 Business management of small businesses or micro- enterprises	90		90	
MF1790_3 Commercialization of products and services in	90		90	
small businesses or micro- enterprises				
		UF1821 : Start-up and financing of small businesses or micro-enterprises	60	





Table 6 Training itinerary for the Ship-owner - Waste collection.

ECONOMIC ACTIVITY 2 - Waste collection.				
JOB POSITION		2 Skipper - Sailor		
1 Imperatives (to ful	fil before st	tarting): Necessary to fulfil before starting the act	ivity	
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS	
MF0083_3: Public use		UF1261: Public use control in the natural and rural places.	60	
activities and environment protection.	180	UF1262: Management procedures on the control and protection of the environment.	70	
protection.		UF1263: Control and vigilance of waste and/or spilled.	50	
TOTAL HOURS:	180			
2 Imperatives (to fulfil durin	2 Imperatives (to fulfil during the first year): necessary to fulfil during the first year of the activity development			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS	
MF0806_3: Environmental educational programs. (Partial)	40	UF0738: Environmental education and application fields.	40	
MF0085_3. Controlling the use of hunting and fishing resources.	70		70	
TOTAL HOURS:	40			
3 Secondary: those that	at are not c	onsidered essential for the development of the a	ctivity	
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)	80	UF0740: Program and environmental educational activities' realization	40	
TOTAL HOURS:	80			

Table 7 Training itinerary for the Skipper / Sailor - Waste collection.

ECONOMIC ACTIVITY		2 Waste collection.			
JOB POSITION		3 Mechanic			
1 Imperatives (to fulfil before starting): Necessary to fulfil before starting the activity			tivity		
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS		
MEOOO2 2. Dublic use		UF1261: Public use control in the natural and rural places.	60		
MF0083_3: Public use activities and environment	180	UF1262: Management procedures on the control and protection of the environment.	70		
protection.		UF1263: Control and vigilance of waste and/or spilled.	50		
TOTAL HOURS: 180					
2 Imperatives (to fulfil during the first year): necessary to fulfil during the first year of the activity's					





TRAINING ACTION	HOURS	TRAINING UNITY	HOURS
MF0806_3: Environmental educational programs. (Partial)	40	UF0738: Environmental education and application fields	40
MF0085_3. Controlling the use of hunting and fishing resources.	70		70
TOTAL HOURS:	40		
3 Secondary: those that	at are not c	onsidered essential for the development of the a	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)	80	UF0740: Program and environmental educational activities' realization	40
TOTAL HOURS:	80		

Table 8 Training itinerary for the Mechanic - Waste collection.

The planned and programmed training actions are:

ECONOMIC ACTIVITY		2 - Waste collection.			
TRAINING UNITY	HOURS	JOB POSITION	NUMBER OF STUDENTS	DATE	
<u>UF0321</u> : Computing information in spreadsheets.	32	Ship-owner,	10	04-04 al 23-05	
MF0085 3. Controlling the use of hunting and fishing resources.	70	Skipper and sailor and Mechanic Naval	10	06-04 al 15-06	
TOTAL HOURS :	102				

The presentation's schedule is the following.

TRAINING ACTION	M1	M2	М3	M4	M5	M6	M7	M8	M9	M10	M11	M12
UF0321												
MF0085_3												





Annex 3. Planning and programming of training actions for lost fishing gear collection

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 the project.

ECONOMIC ACTIVITY		3 Lost fishing gear collection.				
JOB POSITION		1 Ship-owner				
1 Imperatives (to ful	fil before st	arting): Necessary to fulfil before starting the ac	tivity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS			
		UF0319: Operative system, Information Search: Internet/Intranet and Email	30			
MF0233_2: Office (partial)	110	UF0320: Computing applications in text editing	30			
		UF0321: Computing information in spreadsheets	50			
TOTAL HOURS:	110					
2 Imperatives (to fulfil durir	ng the first	year): necessary to fulfil during the first year of t	he activity's			
		development				
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS			
MF1792_2 Managing the working risk prevention in small businesses	60		60			
MF0233_2: Office (completes	90	UF0322: Computing applications in Related Database	50			
the MF)	80	UF0323: Computing applications for presentations: Information charts	30			
TOTAL HOURS:	140					
3 Secondary: those that	at are not c	onsidered essential for the development of the a	activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS			
MF1788_3: Enterprising		UF1818: Enterprising attitude and business opportunities	40			
planning and initiative of small businesses or micro-	120	UF1819: Project and viability of the business or micro-enterprise	40			
enterprises		UF1820: Business marketing and planning of the micro-enterprise	40			
MF1789_3 Business management of small businesses or micro- enterprises	90		90			
MF1790_3 Commercialization of products and services in small businesses or microenterprises	90		90			
MF1791_3 Administrative and economic-financial		UF1821 : Start-up and financing of small businesses or micro-enterprises	60			
management of small businesses or micro- enterprises	120	UF1822 : Accounting, fiscal and labour management in small businesses or microenterprises	60			





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Table 9 Training itinerary for the Ship-owner - Lost fishing gear collection.

ECONOMIC ACTIVITY		3 Lost fishing gear collection.					
JOB POSITION		2 Skipper - Sailor					
1 Imperatives (to ful	fil before st	arting): Necessary to fulfil before starting the act	ivity				
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS				
MEOOR2 2. Dublic uso		UF1261: Public use control in the natural and rural places.	60				
MF0083_3: Public use activities and environment protection. (Partial)	180	UF1262: Management procedures on the control and protection of the environment.	70				
protection: (Fartial)		UF1263: Control and vigilance of waste and/or spilled.	50				
TOTAL HOURS:	180						
2 Imperatives (to fulfil during the first year): necessary to fulfil during the first year of the activity's development							
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS				
MF0806_3: Environmental educational programs. (Partial)	40	UF0738: Environmental education and application fields	40				
MF0085_3. Controlling the use of hunting and fishing resources.	70		70				
TOTAL HOURS:	40						
3 Secondary: those that	at are not c	onsidered essential for the development of the a	ctivity				
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS				
MF0806_3: Environmental	80	UF0739: Heritage interpretation as a communication and management strategy.	40				
educational programs. Completes the MF)	80	UF0740: Program and environmental educational activities' realization	40				
TOTAL HOURS:	80						

Table 10 Training itinerary for the Skipper / Sailor - Lost fishing gear collection.

ECONOMIC ACTIVITY		3 Lost fishing gear collection.	
JOB POSITION		3 Mechanic	
1 Imperatives (to fulfi	il before s	starting): Necessary to fulfil before starting the ac	ctivity
TRAINING ACTION	HOUR S	TRAINING UNITY	HOURS
		UF1261: Public use control in the natural and rural places.	60
MF0083_3: Public use activities and environment protection. (Partial)	180	UF1262: Management procedures on the control and protection of the environment.	70
protection. (Partial)		UF1263: Control and vigilance of waste and/or spilled.	50
TOTAL HOURS:	180		





2 Imperatives (to fulfil during the first year): necessary to fulfil during the first year of the activity's development						
TRAINING ACTION	HOUR S	TRAINING UNITY	HOURS			
MF0806_3: Environmental educational programs. (Partial)	40	UF0738: Environmental education and application fields.	40			
MF0085_3. Controlling the use of hunting and fishing resources.	70		70			
TOTAL HOURS:	40					
3 Secondary: those tha	t are not o	considered essential for the development of the	activity			
TRAINING ACTION	HOUR S	TRAINING UNITY	HOURS			
MF0806_3: Environmental educational programs	80	UF0739: Heritage interpretation as a communication and management strategy.	40			
(Completes the MF)	80	UF0740: Program and environmental educational activities' realization	40			
TOTAL HOURS:	80					

Table 11 Training itinerary for the Mechanic - Lost fishing gear collection.





The planned and programmed training actions are:

ECONOMIC ACTIVITY		3 Lost fishing gear collection.		
TRAINING UNITY	TRAINING UNITY HOURS		NUMBER OF	DATE
		POSITION	STUDENTS	
<u>UF0321</u> : Computing information in spreadsheets.	32	Ship-owner,	10	04-04 al 23-05
MF0085 3. Controlling the use of hunting and fishing resources.	70	Skipper and sailor and Mechanic Naval	10	06-04 al 15-06
TOTAL HOURS :	102			

The presentation's schedule is the following.

TRAINING ACTION	M1	M2	М3	M4	M5	M6	M7	M8	М9	M10	M11	M12
UF0321												
MF0085_3												





Annex 4. Planning and programming of training actions for the environmental parameter monitoring 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 the project.

ECONOMIC ACTIVITY		4 Monitoring environmental parameters.				
JOB POSITION		1 Ship-owner				
1 Imperatives (to fulf	fil before st	arting): Necessary to fulfil before starting the ac	tivity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS			
		UF0319: Operative system, Information Search: Internet/Intranet and Email	30			
MF0233_2: Office (partial)	110	UF0320: Computing applications in text editing	30			
		UF0321: Computing information in spreadsheets	50			
TOTAL HOURS:	110					
2 Imperatives (to fulfil durin	ng the first	year): necessary to fulfil during the first year of t development	he activity's			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS			
MF1792_2 Managing the working risk prevention in small businesses	60		60			
MF0233_2: Office (completes	90	UF0322: Computing applications in Related Database	50			
the MF)	80	UF0323: Computing applications for presentations: Information charts	30			
TOTAL HOURS:	140					
-	at are not c	onsidered essential for the development of the a	activity			
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS			
MF1788_3: Enterprising		UF1818: Enterprising attitude and business opportunities	40			
planning and initiative of small businesses or micro-	120	UF1819: Project and viability of the business or micro-enterprise	40			
enterprises		UF1820: Business marketing and planning of the micro-enterprise	40			
MF1789_3 Business management of small businesses or micro- enterprises	90		90			
MF1790_3 Commercialization of products and services in small businesses or microenterprises	90		90			
MF1791_3 Administrative and economic-financial		UF1821 : Start-up and financing of small businesses or micro-enterprises	60			
management of small businesses or micro- enterprises	120	UF1822 : Accounting, fiscal and labour management in small businesses or micro-enterprises	60			





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 Table 12 Training itinerary for the Ship-owner - Monitoring environmental parameters.

ECONOMIC ACTIVITY		4 Monitoring environmental parameters.					
JOB POSITION		2 Skipper - Sailor					
1 Imperatives (to fulf	fil before st	arting): Necessary to fulfil before starting the act	tivity				
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS				
A450000 0 0 1 1		UF1261: Public use control in the natural and rural places.	60				
MF0083_3: Public use activities and environment protection.	180	UF1262: Management procedures on the control and protection of the environment.	70				
protection.		UF1263: Control and vigilance of waste and/or spilled.	50				
TOTAL HOURS:	180						
2 Imperatives (to fulfil during the first year): necessary to fulfil during the first year of the activity's development							
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS				
MF0806_3: Environmental educational programs. (Partial)	40	UF0738: Environmental education and application fields.	40				
MF0085_3. Controlling the use of hunting and fishing resources.	70		70				
TOTAL HOURS:	40						
3 Secondary: those that	at are not c	onsidered essential for the development of the a	ctivity				
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)	80	UF0740: Program and environmental educational activities' realization	40				
TOTAL HOURS:	80						

Table 13 Training itinerary for the Skipper / Sailor -- Monitoring environmental parameters.

ECONOMIC ACTIVITY		4 Monitoring environmental parameters.				
JOB POSITION		3 Mechanic				
1 Imperatives (to fulfil before starting): Necessary to fulfil before starting the activity						
TRAINING ACTION	HOURS	TRAINING UNITY	HOURS			
MF0083_3: Public use activities and environment protection.	180	UF1261: Public use control in the natural and rural places.	60			
		UF1262: Management procedures on the control and protection of the environment.	70			
		UF1263: Control and vigilance of waste and/or spilled.	50			
TOTAL HOURS:	180					
2 Imperatives (to fulfil during the first year): necessary to fulfil during the first year of the activity's development						





TRAINING ACTION	HOURS	TRAINING UNITY	HOURS					
MF0806_3: Environmental educational programs. (Partial)	40	UF0738: Environmental education and application fields	40					
MF0085_3. Controlling the use of hunting and fishing resources.	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: Program and environmental educational activities' realization	40					
TOTAL HOURS:	80							

Table 14 Training itinerary for the Mechanic - Monitoring environmental parameters.

The planned and programmed training actions are:

ECONOMIC ACTIVITY	4 Monitoring environmental parameters.				
TRAINING UNITY	HOURS	JOB POSITION	Number of students	Date	
<u>UF0321</u> : Computing information in spreadsheets.	32	Ship-owner,	10	04-04 al 23-05	
MF0085 3. Controlling the use of hunting and fishing resources.	70	Skipper and sailor and Mechanic Naval	10	06-04 al 15-06	
TOTAL HOURS:	102				

The presentation's schedule is the following.

TRAINING ACTION	M1	M2	М3	M4	M5	M6	M7	M8	M9	M10	M11	M12
UF0321												
MF0085_3												