

PLANNING OF WP5 AND ACTIVITY WP5.3 TRAINING AND SCHOLARSHIP PROGRAMME

IN 4.0

ADAPTACIÓN DEL MODELO INDUSTRIAL 4.0 AL SECTOR DE LA CONSTRUCCIÓN NAVAL

Meeting agenda

Defining WP5 WP5 coordinator's role and contributions to the planning of the work package, for partners financing scholarships and training actions to be able to start planning them (administration procedures for agreements with companies, appointing young graduates, identifying SMEs, etc.)

Defining Activity 5.3

- Responsible partner per sub-activity
- Defining the products and expected results per sub-activity
- Defining the overall expected results in WP5
- Determining the order of activities and sub-activities (interrelation).
- Budget per activity and partner

Defining the profile of naval SMEs and young graduates participating in the training and scholarship programme

WP5 IN WORK & IN TRAINNING

ACCORDING TO APPROVED PROPOSAL (PAF)

WP 5. IN WORK & IN TRAINING

Coordinated by U. STRATHCLYDE

1

ACLUNAGA

5.1. Definition of labour force new functions / tasks /skills

Outputs: 1 redefinition protocol

2

ASIME

5.2. Training and awareness action and training syllabus

Outputs : 1 training syllabus (4 languages)

3

5.3. Blended learning/ Scholarship Programme

Training progr.

Output 1 : 1 online platform

Output 3: 10 trained SMEs + young graduates (per country)

Scholarship prog.

Output 4: 5 young graduates per country

Output 5: Companies to train (with the right profile)

DEPO

Output 2: 1 transnational network of mentors (from R&D centres, universities...)

DEPO

F.OCEANO

CIT

U. STRATH

EMC2

4

5.4. Dissemination of acquired knowhow on IN4.0 jobs and training

Output : 5 workshops (1 per country)

DEPO

F.OCEANO

CIT

EMC2

WP5. IN WORK AND IN TRAINING (Work Group Leader: University of Strathclyde)

WP5 will allow the redefinition of workers' functions and tasks adapted to technological productions processes (4.0). The transformation of the naval companies towards the industry 4.0 model implies significant organizational changes. Both managers and naval labour force will now be involved in highly technological processes, so a redefinition of positions, functions and skills will be necessary

Actions

- Definition of labour force new functions / tasks /skills
- Training and awareness actions, involving the development of adapted training syllabus
- Blended learning training programs and apprenticeship programme
- Dissemination of acquired knowhow on IN4.0 jobs and training

5.1. Definition of labour force new functions / tasks /skills

TASK	RESPONSIBLE	
<ul style="list-style-type: none"> - Development of a procedure that considering the current state of art on the naval sector (identified in A4.1), allows an efficient introduction of the detected technologies in A4.2 and 4.3, as well as the adaptation of workers to the new processes. Workers' new skills need to be defined so they can be trained to carry them out. This document will constitute a procedure to guide naval companies 	<p>ACLUNAGA and FMV, in collaboration with BPN, CIT and HSSMI</p>	<p>Deliverable:</p> <p>1 redefinition protocol of labour force's new tasks and skills</p>
<ul style="list-style-type: none"> - Dissemination 	<p>With the support of all partners</p>	<p>Expected results:</p> <p>500 downloads form Website are expected, as well as direct distribution to at least 200 naval SMEs involved in the project (40 per country)</p>

5.2. Training and awareness actions, involving the development of adapted training syllabus

TASK	RESPONSIBLE	
<ul style="list-style-type: none"> - Training program syllabus will be developed according to labour force's new skills identified in A5.1, and will include instruction in new the use of new technological tools and processes (collaborative robotics, intelligent communication, traceability, simulation and customization systems). 	<p>ASIME, with the collaboration on BPN</p>	<p>Deliverable:</p> <p>1 training syllabus (in four languages)</p>
<ul style="list-style-type: none"> - 1 common training syllabus including instruction in the use of new technological tools and processes (collaborative robotics, intelligent communication, traceability, simulation and customization systems), ready to carry out training programs 	<p>ASIME</p>	<p>Expected results:</p> <p>1 training syllabus to be taught</p>

5.3. Blended learning training programs and apprenticeship program

TASK	RESPONSIBLE	
<p>- 6 month blended learning training programs including the development of a Shipbuilding Open Knowledge Web System (120 h online learning) 120 h of In house mentoring for SMEs, lead by technological experts, universities, etc.). Target groups: management and workers; young graduates who will participate in an 'apprenticeship' program, allocated in naval SME's companies for 6 months (5 per country)</p>	<p>DEPO, F. Oceano, EMC2, CIT and U. Strath</p>	<p>Deliverable:</p> <p>2 training actions in each country (10) 1 Ship Building Open Knowledge Web System Mentor Networks (1 per country) 1 Scholarship program per country</p>
<p>- 50 naval SMEs in the 5 participating countries being prepared to accomplish the technological transformation through all the provided means (online learning, in-house mentoring, 25 trainees)</p>	<p>With the support of all partners</p>	<p>Expected results:</p> <p>50 naval SMEs receiving training and mentoring by means of all provided mechanisms</p>

5.3. Blended learning training programs and apprenticeship program

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<ul style="list-style-type: none"> - 50 naval SMEs in the 5 participating countries being prepared to accomplish the technological transformation through all the provided means (online learning, in-house mentoring, 25 trainees) 	<p>With the support of all partners</p>	<p>Expected results:</p> <ul style="list-style-type: none"> 50 naval SMEs receiving training and mentoring by means of all provided mechanisms

What is the training and scholarship programme about?

- Double objective:

- **Traning programme. Training.** Trainiag 10 naval SMEs per country (all profiles, from managers to workmen).
- **Scholarship programme.** Placing 5 young graduates, as they participate in the training programme, per country in naval enterprises

- What reourses are necessary:

- **For the training programme:**
 - Training Syllabus (by ASIME)
 - Identifying mentors in R&D centers, universities, etc. (they will contribute to the training contentes with information pills, videos, demos, etc.)
 - Only platform (by DEPO)
 - 10 naval SMEs identified to become receptors of the training programme
- **For the Scholarship programme:**
 - 5 young graduates selected per country to be placer at naval SMEs for 6 months. **Identifying the profile and academic specialization that these young trainees must have**
 - Identifying naval SMEs for the your graduates. **Identifying the profile that these SMEs must have.** Companies must be able to provide a **IN 4.0 business budy** for the young trainnes

How does the training programme work?

- **120 hours online training** through the training platform and the training syllabus developed in activity 5.2:
 - For naval SMEs workers who have been selected by the company to be trained
 - For the young trainees
 - Support by the mentors through the platform
- **120 hours face-to-face training (in company) :**
 - For naval SMEs workers who have been selected by the company to be trained
 - For the young trainees
 - Support by the mentors through face-to-face sessions

5.4. Dissemination of acquired knowhow on IN4.0 jobs and training

TASK	RESPONSIBLE	
<ul style="list-style-type: none"> Organization of 5 workshops per country, to which companies and technological mentors participating in A5.1, A5.2, and A5.3, as well as other industry stakeholders will be invited. Results, lessons learnt and accumulated know how will be shared and discussed. 	<p>DEPO,, F. Oceano, EMC2, CIT and U. Strathclyde with the collaboration of all partners</p>	<p>Deliverable:</p> <p>5 workshops to share acquired knowledge (1 per country)</p>
<ul style="list-style-type: none"> At least 40 naval sector stakeholders per country (200 total) are expected to participate in the dissemination workshops, including companies attending the previous training 	<p>With the support of all partners</p>	<p>Expected results:</p> <p>200 naval sector stakeholders participating</p>

WP5 BUDGET

IN 4.0 ADAPTACIÓN DEL MODELO INDUSTRIAL 4.0 AL SECTOR DE LA CONSTRUCCIÓN NAVAL



IN 4.0 PROJECT		(644.44)	1. DIPUTACIÓN	2.BPN (FR)	3. CIT (EI)	4. Fórum Oceano (PT)	5. ACLUNAGA	6. University of Strathclyde	7. FORO MARÍTIMO	8. EMC2 (FR)	9. ASIME (ES)	10. HSSMI (UK)	
WORK PACKAGE	ACTIVITIES	ACTION	SUBTOTAL	SUBTOTAL	SUBTOTAL	SUBTOTAL	SUBTOTAL	SUBTOTAL	SUBTOTAL	SUBTOTAL	SUBTOTAL	SUBTOTAL	
WPS IN WORK & INTRAINING	5.1. Definition of the new functions / tasks	Coordination staff	Staff costs	5,187.57	18,000.00	-	25,000.00	-	10,000.00	-	-	10,000.00	
		1 workers' tasks redefinition protocol	External expertise services	2,200.00	-	-	20,000.00	-	-	-	-	-	-
	5.2. Awareness actions for training, involving the development of adapted training programmes	Coordination staff	Staff costs	3,730.37	-	-	-	-	-	-	-	25,000.00	-
		Development of training programs	External expertise services	2,000.00	-	-	-	-	-	-	-	18,000.00	-
	5.3. Training actions for workers	Coordination staff	Staff costs	12,000.00	-	2,000.00	10,000.00	0.00	30,250.00	0.00	1,180.00	0.00	10,000.00
		Organization of training programs (2 per country)	External expertise services	30,000.00	1,916.99	2,000.00	13,000.00	0.00	-	0.00	7,000.00	0.00	-
		1 Shipbuilding Open Knowledge Web System	External expertise services	-	1,100.00	0.00	-	0.00	-	0.00	-	0.00	-
		Network of mentors (around 5	External expertise services	-	-	-	-	-	-	-	-	-	-
		Design of training models and	External expertise services	-	-	-	-	-	-	-	-	-	-
		5 apprentices contracted to be placed in companies	Staff costs	30,000.00	-	15,000.00	-	0.00	-	0.00	-	0.00	-
	5.4. Dissemination of know how of IN4.0 jobs and training	1 Coordination staff	Staff costs	2,500.00	2,032.76	0.00	4,000.00	0.00	8,500.00	2,500.00	2,360.00	0.00	-
		1 Dissemination plan (dossier)	External expertise services	3,000.00	-	2,000.00	1,000.00	-	-	-	5,000.00	-	-
		Office and administrative costs (15%)		6,675.00	1,642.61	5,250.00	2,100.00	3,750.00	5,812.50	1,875.00	531.00	3,750.00	3,000.00

See project budget spread sheet



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