



Sustainable development of Blue economies through higher education and innovation in Western Balkan Countries – BLUEWBC

Project no. 609693-EPP-1-2019-1-NO-EPPKA2-CBHE-JP

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Type of document:	Report
Workpackage:	WP4 I&E program and training of teaching staff and students
Deliverable:	DEV 4.3 Staff training for new and upgraded equipment
Lead partner:	University of Split
Participating partners:	All project Partners (P1-P10)
Contact:	Prof. dr.sc. Gorana Jelic Mrcelic (P5, UNIST) gjelic@pfst.hr
Date:	30-10-2022
Approved by:	QAB, PMB

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Report on DEV 4.3 Staff training for new and upgraded equipment

Project Proposal:

Expected Deliverable/Results/Outcomes	Work Package and Outcome ref.nr	4.3.	
	Title	Staff training for new and upgraded equipment	
	Type	<input type="checkbox"/> Teaching material <input type="checkbox"/> Learning material <input checked="" type="checkbox"/> Training material	<input checked="" type="checkbox"/> Event <input checked="" type="checkbox"/> Report <input type="checkbox"/> Service/Product
	Description	At least three team members from each partner countries HEIs will be trained and certified by providers of new/upgraded equipment at P2, P3 and P4. The trainings will last 3-5 days, respectively and will be organized. This DEV will be carried out along with DEV 4.4 that includes the students training and certification. The additional advanced staff training for new and upgraded equipment will be organized at P2 and P5 with total duration of 3-5 days and at least three team members from partner countries HEIs will participate. Program countries partners will lead the trainings. A mutual report of the activities will be carried out.	
	Due date	January 2022	
	Languages	English	
Target groups	<input checked="" type="checkbox"/> Teaching staff <input type="checkbox"/> Students <input type="checkbox"/> Trainees <input type="checkbox"/> Administrative staff <input checked="" type="checkbox"/> Technical staff <input type="checkbox"/> Librarians <input type="checkbox"/> Other		
	<i>If you selected 'Other', please identify these target groups. (Max. 250 words)</i>		
Dissemination level	<input checked="" type="checkbox"/> Department / Faculty Institution	<input type="checkbox"/> Local <input type="checkbox"/> Regional	<input type="checkbox"/> National <input type="checkbox"/> International

REMARKS ON DEV 4.3 Staff training for new and upgraded equipment (M16-M24; Training material, Event, Report):

At least three team members from each partner countries HEIs will be trained and certified by providers of new/upgraded equipment at P2, P3 and P4. The trainings will last 3-5 days, respectively and will be organized.

The additional advanced staff training for new and upgraded equipment will be organized at P2 and P5 with total duration of 3-5 days and at least three team members from partner countries HEIs will participate. Program countries partners will lead the trainings. A mutual report of the activities will be carried out. (deadline: January, 2022)

Due to Covid 19 pandemic, some alternations have been made in this task :



P2, P3 and P4 organized training and certification of team members from each partner countries HEIs by university partners from program countries and by providers of new/upgraded equipment at P2 and P4, but the duration and date of trainings were modified due to the Covid 19 situation.

P3 organized training and certification of 12 team members by providers of new/upgraded equipment at P3 in January, 2022.

P2 organized training and certification of 21 team members (academic staff) by providers of new/upgraded equipment at P2 Kotor, Podgorica and on-line from October 2021 to January 2022 for different equipment.

- The additional advanced staff trainings for new and upgraded equipment were organized at P2 and P5 for least three team members from partner countries HEIs will but total duration were modified due to Covid 19 situation as well as some trainings were delayed to June, 2022. Since Project allocated money for this additional training to P2 (UoM) and P5 (UNIST), it was decided to organize additional trainings at: UNIST (P5) regarding marine simulators (Transas) for staff from University of Vlore and University of Montenegro on 9th and 10th of December 2021. Since NTNU (P1) and Vilnius Tech (P6) has large experience in trainings it was decided to organize the events at: Vilnius Tech (P6) regarding 3D scanning and 3D printing for staff from UoM, UV and instead at UoM (P2). The event took place in Vilnius Tech on 22nd and 23rd June 2022. The trainings finished in June, 2022 instead of January, 2022.

NUMBER OF CERTIFIED STAFF:

At UoM (P2) by providers of new/upgraded equipment (January, 2022): 21

At UoV (P3) by providers of new/upgraded equipment (January, 2022): 12

At UNIST (P5): 2 UoM (P2) + 3 UoV (P3)

At VILNIUS TECH (P6): 4 UoM (P2) + 4 UoV (P3) + 3 UoT (P4)

MINUTES ON THE EVENTS HAS BEEN INCLUDED IN THE REPORT.

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***Minutes of Staff training for new and upgraded equipment
by providers of new/upgraded equipment (October, 2021 - January,
2022) organized at P2 (Kotor, UoM) (DEV 4.3)***

P2 organized training and certification of 21 team members (academic staff) by providers of new/upgraded equipment at P2 Kotor, Podgorica and on-line from October 2021 to January 2022 for different equipment:

- ARTEC SPACE SPIDER EDU –Lot1 in November 2021 for 5 academic staff
- ORIGINAL PRUSA I3 MK3S+3D PRINTER COLOR BLACK PEI SHEET –Lot 1 in November 2021 for 3 academic staff
- SCA CZUR M3000 – Lot 1 in November 2021 for 3 academic staff
- Eye tracking glasses with software –Lot 2 on 12th October 2021 via GoToMeeting application for 4 academic staff
- Mobile outdoor air quality and environmental monitoring equipment – IoT sensors for simulators - Lot 6 on-line on 3rd November 2021 for 3 academic staff
- Statistical database software - Lot 3 in December 2021 for 3 academic staff





***Minutes of Staff training for new and upgraded equipment
by providers of new/upgraded equipment (January, 2022)
organized at P3 (Vlora, UoV) (DEV 4.3)***

P3 organized training and certification of 12 team members by providers of new/upgraded equipment at P3 in January, 2022.

MEP

Handover Protocol 01/2022

HANDOVER PROTOCOL

Contract: Contract on public procurement of computer equipment – International project Erasmus + "Sustainable development of BUE economics through higher education and innovation in Western Balkan Countries" (BLUEWBC) for LOT 8

Buyer: Universiteti "Ismael Qemali" Vlore, Fakulteti i Shkencave Teknike, Lagja "Pavaresia", Rruga Kosova, 9400 Vlore, Albania

Seller: MEP d.o.o. Rijeka, Martina Kontula 5, 51000 Rijeka, Croatia

This handover protocol confirms that the seller has delivered equipment, installed simulator equipment, set it up and delivered it to Buyer. List of equipment supplied is in below table:

Item	Description	Unit	Quantity	Warranty period
1.	Marine simulator upgrade <i>ER 5</i>	pcs.	1	
2.	DELL OptiPlex PC 3090ULTRA UFF, i3/8GB/256 GB SSD, W10Pro	pcs.	4	
3.	Monitor DELL Professional P2419H 23.8in	pcs.	4	
4.	LOGITECH Stereo Headset H111	pcs.	4	
5.	Switch TP-Link TL-SG108, 8-port Gigabit Switch, 10/100/1000M	pcs.	1	
6.	GMDSS simulator description – paper document	pcs.	1	
7.	Statement of Compliance for GMDSS Simulator software – paper document	pcs.	1	
8.	ISO9001 Certificate - GMDSS Simulator Manufacturer – paper document	pcs.	1	
9.	ISO12207 Certificate - GMDSS Simulator Manufacturer – paper document	pcs.	1	
10.	GMDSS Instructor Workplace Software TGS 50000, v8.5	pcs.	1	
11.	GMDSS Trainee Workplace Software TGS 50000, v8.5	pcs.	3	
12.	ERS simulator description – paper document	pcs.	1	
13.	Statement of Compliance for ERS Simulator software – paper document	pcs.	1	
14.	ISO9001 Certificate - ERS Simulator Manufacturer – paper document	pcs.	1	
15.	ISO12207 Certificate - ERS Simulator Manufacturer – paper document	pcs.	1	
16.	Steam Turbine (Kawasaki UA-400) LNG Carrier Ship Model	pcs.	1	<i>model</i>
17.	AZIPOD Diesel-Electric Cruise Ship Model	pcs.	1	<i>model</i>
18.	Installation of GMDSS and ERS Simulator	pcs.	1	
19.	GMDSS simulator operations training	hours	8	
20.	ERS simulator operations training	hours	8	



Handover Protocol 01/2022

Training of Buyer instructors was performed and following is the list of instructors trained:
GMDSS TRAINING Day 07.01.2022

No	First Name	Last Name	Rank
1			Lecturer / Navigation
2			Lecturer / Navigation
3			LECTURE NAVIGATION
4			LECTURE / NAVIGATION
5			Lectore NAVIGATION

TECH SIM ERS TRAINING Day 07.01.2022

No	First Name	Last Name	Rank
1			Lecture / Naval Engineer / UV.
2			Lecture / Electrical Engineer / UV
3			Lecture / Electrical Engineer / UV
4			Company Marine
5			Student / Naval Engineering
6			Lab

Works and equipment delivered on 07.01.2022.

Equipment was delivered in full operational condition and operation was checked and confirmed by the buyer

Remarks:

Minutes of handover session were read to the members of handover group and no further remarks were made by Customer and Supplier, which is confirmed by signatures on the end of this document.

Minutes were made in two (2) identical copies, two copies for Buyer and two copies for Seller.

Vlore – Albania, 07.01.2022.

for Buyer:

for Seller:

Saimir Khela
University "Ismael Qemali"

Mark Filipović
MEP d.o.o.

Coord. of UR BLUEWBC Proj
KRI SODOR LAPA



Minutes of Staff training for new and upgraded equipment organized at P5 (Split, UNIST) on 9th and 10th of December 2021 (DEV 4.3)

Engine Room simulator

Thursday 9th December 2021

09:00 – 12:30: Mr. Igor Pavlović will perform introduction and whole process demonstration of the LNG Bunkering module which is one of the latest developments on the shipping market. As solution is on the market for only two years, there are only for training facilities for this course and very limited personnel qualified to perform the course. This part of the training will be performed on our Full mission simulator room 505/506. Topics: Description of the system, system main features, demonstration of the operation.

10:30 – 11:00 BREAK

Mr. Igor Pavlović will perform introduction of the DFDE LNG engine module together with demonstration of ship departure from port and change over from FO to LNG. Special attention will be paid on the processes connected with the LNG aspect of the system. This part of the training will be performed on our Full mission simulator room 505/506.

12:30 – 13:30 LUNCH

14:00 – 16:00: Mr. Ladislav Stazić will perform introduction to LCC module together with introduction on main functions of the Simulator Editor mode, how Simulator exercises are created, what can be achieved and how. Problems encountered during exercise creation will be discussed as well. This part of the training will be performed in our Simulator classroom 528.

Friday 10th December 2021

09:00 – 12:30: Mr. Ladislav Stazić will demonstrate several aspects of the simulator:

- a. How to create initial condition
- b. How to create basic exercise?

10:30 – 11:00 BREAK

- c. How to create self-evaluating exercise?
- d. How to create self-evaluating test?

All above demonstrations are linked and can/should be combined.

12:30 – 13:30 LUNCH





Bridge simulator

Thursday 9th December 2021

09:00 – 09:30	Welcome and introduction
09:30 – 10:00	Simulator system structure
10:00 – 10:30	System start-up and shutdown
10:30 – 11:00	BREAK
11:00 – 12:30	Creating of new exercise (1/2)
12:30 – 13:30	LUNCH
13:30 – 14:00	Creating of new exercise (2/2)
14:00 – 14:30	Briefing mode
14:30 – 15:00	Closing session, Q&A

Friday 10th December 2021

09:00 – 09:30	Review of contents - previous day
09:30 – 10:00	On-line control mode
10:00 – 10:30	De-briefing mode
10:30 – 11:00	BREAK
11:00 – 12:00	Review, Q&A, Assessment

Topics:

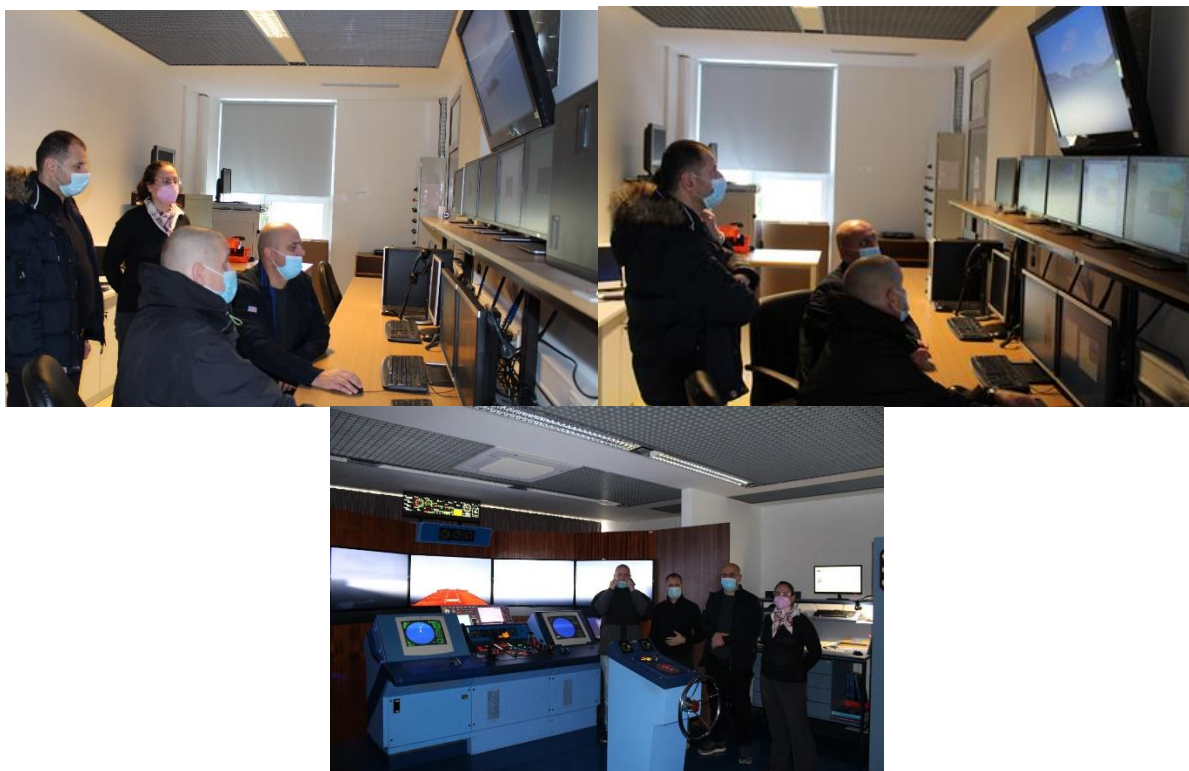
1. Simulator system structure (30 min)
2. System start-up and shutdown (30 min)
3. Creating of new exercise (120 min)
4. Briefing mode (30 min)
5. On-line control mode (30 min)
6. De-briefing mode (30 min)

Total: 270 min (4 hours and 30 min)



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CERTIFICATE OF PARTICIPATION

This certificate is awarded to





In recognition of his/her participation in BLUEWBC training DEV 4.3 Staff training for new and upgraded equipment:

Bridge Simulator

held at the University of Split, Faculty of Maritime Studies on 9th and 10th of December 2021

within the ERASMUS+ CBHE project "Sustainable development of BLUE economies through higher education and innovation in Western Balkan Countries – BLUEWBC"


Professor Gorana Jelic Mrcelic, PhD
University of Split, Faculty of Maritime Studies
BLUEWBC Coordinator


Arnfinn Oksavik
NTNU
BLUEWBC Project Manager

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***Minutes of Staff training for new and upgraded equipment
organized at P6 (Vilnius, VILNIUS TECH) on 22nd and 23rd of June
2022 (DEV 4.3)***

Wednesday 22th June 2022

10:00 – 10:30: Welcoming coffee

10:30 – 12:00: Tour at Creativity and Innovation Centre “LinkMenų fabrikas”

All participants with the guide were introduced with Creativity and Innovation Centre “LinkMenų fabrikas” and their team. Modern tools for prototyping & media: 3D printing, electronics, wood, metal, 3D modeling, animation, virtual & augmented reality, foto, video, audio laboratories, creative projects.

12:00 – 13:00: Selected Training sessions:

- a. *Training on 3D printing (part I); Lecturer Jonas Andriušiūnas, Faculty of Mechanics, Materials Science and Welding Laboratory*

Presentation focusing on metal and ceramic 3D printing processes, although technologies which could be used for manufacturing thermoplastic parts.

or/alternative

- b. *Training on Entrepreneurial finance; Lecturer Minijus Tilindis Faculty of Business Management, Department of Financial Engineering.*

Topics regarding companies financing needs, Investment needs, financing needs for trading, manufacturing, services business, financing sources.

13:00 – 14:00 LUNCH

14:00 – 16:00: Training on 3D printing (part II); Lecturer Jonas Andriušiūnas, Faculty of Mechanics, Materials Science and Welding Laboratory

Presentation focusing on plastic technologies, descriptions, characteristics of 3D printing process.

18:30 Welcoming dinner for participants.





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Thursday 23rd June 2022

09:00 – 10:00 Managing board meeting

Discussion of project activities, next steps, project management plan of all related meetings. The periodical reporting were also discussed.

10:00 – 11:00 Quality assurance meeting

Project partners discussed current issues, plans for next visits.

11:00 – 12:00 Meeting in Sunrise Valley Science and Technology Park

Presentation of Sunrise Valley Science and Technology Park.

Innovation support services of Sunrise valley, infrastructure, startups services, projects.

12:00 -14:00 Meetings with the Faculty representative, Closing session, Q&A

Participants had the opportunity to communicate with VILNIUS TECH faculty representatives and learn about their science, technology and innovation activities, services, innovative solutions, student entrepreneurship and faculty support, encouraging the creation of new, innovative startups. Faculty representatives shared their experience, knowledge, and achievements in cooperation with the business sector.





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PARTICIPANTS LIST, 22 - 23 JUNE 2022



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**VILNIUS
TECH**
Vilnius Gediminas
Technical University

BLUEWBC Training Programme in Vilnius Gediminas Technical University

Vilnius, Lithuania, 22nd June

Name	Surname	Institution	E-mail	Signature



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Name	Surname	Institution	E-mail	Signature
[Redacted]				

Total: 21 participants (22 June 2022)



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VILNIUS
TECH
Vilnius Gediminas
Technical University

BLUEWBC Training Programme in Vilnius Gediminas Technical University

Vilnius, Lithuania, 23rd June

Name	Surname	Institution	E-mail	Signature
[Redacted]				



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Name	Surname	Institution	E-mail	Signature
[Redacted]				

Total: 19 participants (23 June 2022)



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CERTIFICATE OF PARTICIPATION

This certificate is awarded to

[Redacted]

In recognition of his/her participation in BLUEWBC training:

3D PRINTING TECHNOLOGIES AND ENTREPRENEURIAL FINANCE

held at the Vilnius Gediminas Technical University, Creativity and Innovation Centre "LinkMenu fabrikas" on 22nd June 2022

within the ERASMUS+ CBHE project "Sustainable development of BLUE economies through higher education and innovation in Western Balkan Countries – BLUEWBC"


Vilma Puriene
VILNIUS TECH
BLUEWBC Project Coordinator


Arnfinn Oksavik
NTNU
BLUEWBC Project Manager

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