

**E2: Pure-H2O project – Teaching Excellence & Educational Innovation”**

The event was performed on 20th of July, 2016 in the premises of Hemus Hotel, Kom Hall; 31 Cherni Vrah Blvd., 1421 Sofia, Bulgaria as one-day session with the following schedule:

Schedule of the event	
<u>Type of activity</u>	<u>Time</u>
Welcome address	15 min
Presentation of Pure-H2O project – aims, objectives and products	45 min
Coffee break	30 min
Lecture “Water contamination risks”	60 min
Lunch	75 min
Round table: “Drink purified water !”	120 min
Filling the questionnaire	30 min
Conclusion remarks and final briefing – coffee break	30 min

**Moderator of the event:**

Assoc. Prof. Dr. Trayana Nedeva

**Participants:**

Twenty one (21) teachers, trainers and other VET providers in microbiology, chemistry, civil and environmental engineering, genetics, landscape architecture, computer science; R & D managers working within biotechnological SMEs equipped with (D)WTPs; representatives of social sciences interrelated to educational policy.

**Objective of the event:**

The objective of the testing was to provide general overview of project advancement and achievements to wide audience and raise awareness about global problem of water contamination, bringing together representatives from the key project stakeholders in facilitated group sessions.

It is known that inadequate sanitation and hygiene practices are the reason why about 5 million people annually die from waterborne diseases, which in general are preventable. The effects of sanitation have impacted people's health and lives for ages. Protection of public health and environmental quality,

especially when concerning water resources quality, its prevention and assessment, is of special national and international importance. Sanitary risk assessment helps to identify threats to public health. WHO has introduced sanitary surveys, which record observable sanitary hazards of water resources, including sources of pollution and technical conditions of the water supply and distribution systems. It also develops Water Safety Plans elaborated through comprehensive, systematic risk assessment and risk management approach and encompassing all steps in water supply from providers to consumers.

These facts outline the importance of the discussed during the work-shop topics devoted to water contamination risks. The participants were acquainted with the training possibilities offered by Pure-H2O project for updating and upgrading of the knowledge and skills about water contamination risks and the importance of pure drinkable water. The 12 learning pathways offered to the 12 different qualifications in water supply sector were an object of particular interest, since the participants found their personalized option of training. The blended learning programme in water supply sector comprises 13 courses with specific knowledge content in the field of characteristic, operation, management and economics of Drinking Water Treatment Plants. The training is offered on the basis of the specific requirements for targeted qualifications of professionals working in the water supply sector who need upgrading/updating of their knowledge and skills. Comprehensive learning outcomes-based units are designed to give detailed view of knowledge, skills and wider competence required for the target groups.

Another object of interest was the qualification description system offered by the project, which the participants studied in details and discussed on the three main descriptive elements included:

- **Occupational qualification description** - the ISCO reference
- **Learning pathway** - a series of narrated LOs, the knowledge part of which is presented as a number of chapters and each chapter covers a specified element of training, with a self-test element at the end. The Learning Pathways (LPs) vary in size and content according to the chosen qualification and EQF reference level.
- **Competencies acquired** - description of specific activities in respect to knowledge (professional), skills (methodical), wider competences (personal and social) to be gained by the learner upon defined period of training in the frame of the Pure-H2O project.

The qualifications descriptions were related to the other important product of Pure-H2O project – the Knowledge and Skills Passport. The European Skills Passport, which helps people to assemble their skills

and qualifications have been successfully implemented and adapted for the objectives of Pure-H2O project. The K&S Passport, developed by the project is a user-friendly electronic folder to help trainees, workers or job-seekers build up personal, modular inventory of personal skills and qualifications acquired throughout life. Specifically, the participants were informed how to use the K & S Passport to complement the information included in vocational qualifications in the light of the results obtained by H2O project.

Thus, the full capacity of Pure-H2O model of b-learning, qualification adoption and its certification was revealed.

Teaching Excellence and Educational Innovation brings pedagogical and technological issues together to support trainees in their roles as educators. Considering the majority of the event participants being teachers/trainers, the re-training and up-skilling prospects offered by Pure-H2O project are highly appreciated by them. This positive feedback is shown in the data from the filled in questionnaire, purposefully made for the event by project consortium.

**Gathering the feedback information from participants**

Gender: .....  
 Educational degree:.....

**Questionnaire data and test results**

*Evaluation scale:1 = all positive; 2 = mainly positive; 3 = double minded; 4 = mainly negative; 5 = all negative; Figures indicate %*

How did you learn about the event

	1	2	3	4	5
Respondent	84	12	3	1	0

Do you receive enough preliminary information / materials about the even?

	1	2	3	4	5
<b>Respondent</b>	88	11	1	0	0

Do you find the aims and objective of PURE-H2O project of current interest / importance for your country?

	1	2	3	4	5
<b>Respondent</b>	79	20	1	0	0

Are you interested in competence development in drinking water sector?

	1	2	3	4	5
<b>Respondent</b>	78	16	5	1	0

Do you think that the competence-based education offered by the training model will be helpful for your professional carrier?

	1	2	3	4	5
<b>Respondent</b>	77	22	1	0	0

What is your opinion on the learning material offered? Please, consider its content, structure, and operation.

	1	2	3	4	5
<b>Respondent</b>	82	15	2	1	0

What is your opinion on the PURE-H2O professions descriptions? Please, consider both their content and practical applicability

	1	2	3	4	5
<b>Respondent</b>	76	21	3	0	0

What is your opinion on the Knowledge & skills passport? Will its application increase the transparency of qualifications and the volume of learners' mobility throughout Europe?

	1	2	3	4	5
<b>Respondent</b>	78	19	3	0	

The testing session was supported fully by P2 staff members as follows:

- ✓ Support of the pre-event information campaign
- ✓ Support with experts the performance of the event: delivering of lectures and explanations; supervising activities – minding of KSIs determined by PMB;
- ✓ Support for data accumulation and evaluation;
- ✓ Support in conclusions launching and national report issue.

Results review and final tuning

- ✓ Pure-H2O project aims and objective are definitely of current interest / importance for participants' country. The participants shared the opinion that the contents of the project, in particular the type of b-learning is very well done.
- ✓ Pure-H2O is offers real possibilities for improving employment chances since it offers competence development in pure water sector.
- ✓ The combination of multidisciplinary subject content courses together in a project is well done.
- ✓ The applicability of the evaluation system is graded positively.
- ✓ Some of the target groups expressed willingness to experiment the proposed learning materials in some kind of professional training, thus implementing the Pure-H2O model in specific working reality.
- ✓ They have received the basis for further professional development on the basis of the content and methods of Pure-H2O project.