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Erasmus+ Programme  
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# CERTIFICATE

This is to confirm that

*Olena Voloshkina*

has attended and successfully completed  
the Erasmus+ **ClimEd Training (online)**  
on Adaptation of the Competency Framework for  
Climate Services to conditions of Ukraine

29 June – 26 August 2021



Erasmus+ ClimEd Project  
“Multilevel Local, Nation- and Regionwide Education and Training  
in Climate Services, Climate Change Adaptation and Mitigation”  
(619285-EPP-1-2020-1-FI-EPPKA2-CBHE-JP)  
<http://climed.network>

Hanna K. Lappalainen  
University of Helsinki

Sergiy Stepanenko  
Odessa State Environmental University

## Olena Voloshkina

has been awarded four (4) credits according to the European Credit Transfer and Accumulation System (ECTS)

### ClimEd Training included:

#### Lectures (L):

- L1 – Qualification framework. Methodological and organizational approaches of its development.*  
**Marek Frankowicz**, Jagiellonian University in Krakow (JUK), Poland
- L2 – Establishing the WMO Competence Framework for Climate Services.*  
**Enric Aguilar**, Universitat Rovira i Virgili (URV), Tarragona, Spain
- L3 – The WMO Reform: facing and responding to new scientific and technological challenges.*  
**Manola Brunet**, URV
- L4 – Present state of implementation of competence-based approach – best practices in Ukraine.*  
**Oleh Tiapkin**, National Agency for Higher Education Quality Assurance, Ukraine
- L5 – The relationships between competence framework and qualifications framework: peculiarities of structure, comparison and use.*  
**Yurii Rashkevych**, Lviv Polytechnic National University, Ukraine
- L6 – Competencies framework vs. existing and foreseen programs.* **Jon Olano**, URV
- L7 – Education for Sustainable Development: teaching and learning practices and processes.*  
**Gisela Cebrián Bernat**, URV
- L8 – Functional analysis.* **Inna Osadchuk**, National Agency for Qualifications in Ukraine
- L9-10 – Competence profiles. Competences and learning outcomes.* **Marek Frankowicz**, JUK
- L11 – Sustainability competencies' frameworks: emerging teaching and research developments.*  
**Gisela Cebrián Bernat**, URV

### Home-Work-Assignment (Projects) & Defense:

*Training course for experts in construction and architecture on 'Application of climatic information for specialists in the construction industry in terms of implementing the principles of & "green" construction'*

### Obtained Competencies/ Training Learning Outcomes:

- 1. Explain basic principles of the development and scope of competencies and qualifications frameworks, including stages and requirements in elaboration and implementation of a competencies framework*
- 2. Formulate competence-based education principles and practices and identify teaching and learning methods, topologies and assessment tools for measuring competencies' development;*
- 3. Define appropriate competences from competence framework for the implementation into curricula and reference learning outcomes to national qualification framework levels;*
- 4. Identify WMO competencies framework and its potential usage, stages in climate services development, including linking them to university-level training experiences;*
- 5. Build a logically interconnected system of the sustainable educational program core components and curricula content taking into account processes and practices and allowing to achieve program's goals and learning outcomes in the specialty (Earth Sciences disciplines)*