MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

V. N. KARAZIN KHARKIV NATIONAL UNIVERSITY

CONFIRMED

Academic Council of

V. N. Karazin Kharkiv National University

“\_\_\_\_” \_\_\_\_\_\_\_\_\_\_\_\_\_ 20\_\_\_

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Vice-Rector for Research and Academic Affairs \_\_\_\_\_\_\_\_\_ (Name, SURNAME)

MICRO-SQUALIFICATION PROGRAM

***State Policy on the Use and Conservation of Soil and Forest Resources in the Wartime and Postwar Periods***

NATIONAL QUALIFICATIONS FRAMEWORK LEVEL \_\_\_\_\_7\_\_\_\_\_\_\_\_\_\_\_\_\_

(5, 6, 7, 8 level)

QUALIFICATION TYPE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_professional\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(educational or professional)

CATEGORY OF QUALIFICATION \_\_\_\_\_\_\_\_\_\_\_microqualification\_\_\_\_\_\_\_\_\_\_\_

(partial qualification or micro-qualification)

QUALIFICATION \_\_\_\_\_\_\_\_\_\_\_environmental protection specialist\_\_\_\_\_\_\_\_\_\_\_\_

(title of qualification)

**Kharkiv 2026**

**Profile of the program**

|  |  |  |
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| **1. General information** | | |
| **Head of the program** | | **Olena O. Gololobova**, PhD in Agricultural Sciences, Associate Professor, Associate Professor of the Department of Environmental Monitoring and Protected Areas Management. |
| **Members of the program development working group** | | 1. **Iryna M. Koval**, Member of the Forestry Academy of Sciences of Ukraine, Doctor of Agricultural Sciences, Senior Researcher at the Ukrainian Research Institute of Forestry and Forest Melioration named after G. M. Vysotsky. 2. **Anastasiia A. Klieshch**, PhD in Geographical Sciences, Associate Professor, Associate Professor of the Department of Environmental Monitoring and Protected Areas Management. |
| **Full name of the higher education institution and structural unit where the program is implemented** | | V. N. Karazin Kharkiv National University, Institute of Environmental Sciences, Green Energy, and Sustainable Development, Department of Environmental Monitoring and Protected Areas Management |
| **National Qualifications Framework Level** | | 7 (NQF Ukraine), Second cycle (QF-EHEA),  7 (EQF-LLL) |
| **Official name of the program** | | State Policy on the Use and Conservation of Soil and Forest Resources in the Wartime and Postwar Periods |
| **Type of document issued and scope of the program in ECTS credits and academic hours** | | Certificate  3 ECTS, 90 hours |
| **Language(s) of teaching /assessment** | | Ukraine, English / Ukraine |
| **2. Program goal** | | |
| *The purpose of the certificate program "* *State Policy on the Use and Conservation of Soil and Forest Resources in the Wartime and Postwar Periods" is* *the theoretical and practical training of a specialist possessing the requisite competences, prepared for employment within the agricultural and forestry sectors during both the wartime and post-war periods to ensure the sustainable development of Ukraine.* | | |
| **3. Characteristics of the program** | | |
| **Orientation, features and objectives of the program** | | *The microcredit program is application-oriented and provides training in the functional duties involved in organizing measures for the use, conservation, and restoration of soil and forest resources during wartime and the post-war period to ensure the sustainable development of Ukraine.* *The program provides for international participation in the development and teaching of the Erasmus+ project «DOMANI – Developing Micro-credentials Ecosystems in Ukraine and Mongolia for Competitive and Resilient Green Economies».* |
| **The main focus of the program** | | *Regulatory, methodological, and scientific support for the organization of measures for the sustainable use, conservation, and restoration of soil and forest resources in Ukraine during wartime and post-war periods.*  *Key words: sustainable land use, soil conservation, sustainable forest management, reforestation.* |
| **4. Teaching and assessment** | | |
| **Teaching and learning** | | *main approaches: student-centered, activity-based, value-based; electronic, distance, and self-directed learning;*  *educational technologies: problem-based, interactive, information and communication, project-based.* |
| **Assessment** | | *A 100-point grading system based on the following types of assessment with accumulated points: current (oral and written tests), intermediate (defense of practical and independent work, seminars, tests), and final assessment in the form of a test.* |
| **5. Program competencies or job functions** | | |
| **General competencies** | *GC1. Ability to think abstractly, analyze, and synthesize.*  *GC2. Ability to act based on ethical considerations (motives).*  *GC3. Ability to identify, pose, and solve problems.*  *GC4. Ability to work in an international context.*  *GC5. Ability to develop and manage projects.*  *GC6. Commitment to environmental protection.* | |
| **Professional competencies** | *PC1. Ability to apply new approaches to the analysis and forecasting of complex phenomena, critical thinking about problems in professional activity.*  *PC2. Ability to convey knowledge and own conclusions to specialists and non-specialists.*  *PC3. Ability to engage in self-education and professional development based on innovative approaches in the field of ecology, environmental protection, sustainable use of natural resources, and nature conservation.*  *PC4. Ability to analyze and evaluate current problems, development prospects, and scientific and technical policy in the field of agronomy.*  *PC5. Ability to assess the suitability of land for growing agricultural crops, taking into account the requirements for ensuring the quantity and quality of products.*  *PC6. Ability to solve complex problems in broad or multidisciplinary contexts based on specialized conceptual knowledge, including modern scientific achievements in the field of agronomy.*  *PC7. Ability to present the results of professional and scientific activities to specialists and non-specialists.* | |
| **DOMANI competencies** | *DC1. Solving multidimensional sustainable development challenges by integrating approaches from different fields, forecasting trends, and adapting strategies to changing conditions.*  *DC2. Developing scenarios, shaping a vision of the desired future, and creating innovative solutions for sustainable transformations.*  *DK3. Working productively in diverse teams, resolving conflicts constructively, and maintaining focus on common goals.*  *DK4. Assessing the state of ecosystems in terms of biodiversity, planning and restoring habitats, managing protected areas to conserve species, environments, and ecosystem services.* | |
| **6. Program learning outcomes** | | |
| **Program learning outcomes** | *PLO1. Be able to use modern information resources on ecology, nature management, environmental protection, and conservation.*  *PLO2. Be able to assess landscape and biological diversity and analyze the effects of anthropogenic impact on natural environments.*  *PLO3. Integrate knowledge from various fields to solve complex theoretical and/or practical problems and issues in agronomy.*  *PLO4. Develop and implement economically significant production and research projects in the field of agronomy, taking into account available resources and constraints, technical, social, legal, and environmental aspects.* | |
| **7. Resource provision for program implementation** | | |
| **Human resources** | Lecturers have a scientific degree and/or academic title, including Doctors of Geographical Sciences, Doctors of Philosophy. All lecturers are full-time employees of V. N. Karazin KhNU, who regularly take advanced training. | |
| **Material and technical support** | Equipment and supplies necessary for field research, technical training aids (multimedia projectors, laptops, printers; scanners, personal computers with software) for the formation of subject competencies in the learning process; use of bases for conducting educational and practical classes. | |
| **Information and educational and methodological support** | Official websites KKhNU (<https://karazin.ua/>), Institute of Post-Qualifying Education and Part-Time (Distance) Learning ([http://moodle.karazin.uа](http://moodle.karazin.xn--u-8sb/)), Institute of Environmental Sciences, Green Energy, and Sustainable Development (<http://ecology.karazin.ua>) contain information about the microcredit educational program. | |

**2. List of program components**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Program components/topics, practical component, certification | | Number of credits/hours | Form of control | |
| *Section 1. State policy on the use and conservation of forest resources in the wartime and postwar periods* | | | | |
| *Topic 1.* Introduction to the issue. Soil resources of Ukraine: current state, problems, and priority areas for their resolution.  *Topic 2.* International legal experience in regulating the protection of land and forest resources during wartime and post-war periods.  *Topic 3.* Regulatory and methodological support for the restoration and use of chemically contaminated soils affected by military and man-made influences.  *Topic 4.* Legal support for restoring the environment to its natural state.  *Topic 5.* International legal instruments for the post-war restoration of Ukraine. | | 1/30 | | Test control |
| *Section 2. State policy on the use and protection of forest resources during wartime and post-war periods* | | | | |
| *Topic 6.* Theoretical and legal foundations of state policy in the forestry sector and the challenges of martial law.  *Topic 7.* State forest management and strategies for the use of forest resources during wartime.  *Topic 8.* Post-war reconstruction of the forestry sector: strategic directions and challenges.  *Topic 9.* Financial and economic instruments and international legal aspects of post-war policy.  *Topic 10.* Sustainable forest management, adaptation to climate change, and European integration. | | 1/30 | | Test control |
| *Section 3. Practical component* | Preparation for and participation in seminars | 1/30 | | Graded credit |
| *Certification exam* | Completion of the test task |  | | Differentiated credit |
| **ЗАГАЛЬНИЙ ОБСЯГ ПРОГРАМИ 3/90** | | | | |

**3. Form of attestation according to the program**

1. Oral control method: individual interview at the beginning and end of training; individual or frontal interview during the course, final control.

2. Written control method (checking written assignments, tests)

3. Taking a final test for certification

The following methods are used to control the performance of independent work: survey, testing, and performance of tests.

The system of control of students' knowledge in the discipline consists of current control, intermediate and final control of knowledge. Assessment of students' success in the discipline is carried out in points.

Assessment of students' knowledge, skills and abilities in the discipline takes into account all types of classes provided for by the curriculum, namely lectures, practical classes, and performance of independent work. Current control in the discipline involves assessing students' knowledge and skills during practical work (30 points), intermediate control is carried out through testing and performance of tests (2\*10=20) points.

Final control in the discipline is carried out in the form of test control (40 points)

**4. Program verification**

Head of the program \_\_\_\_\_\_\_\_\_\_\_\_\_ Olena GOLOLOBOVA

(signature) (Name, SURNAME)

Considered at the department meeting \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

from «\_\_\_» \_\_\_\_\_\_ 20\_\_ , protocol № \_\_\_

Head of the Department \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Nadiya MASKYMENKO

(signature) (Name, SURNAME)

«\_\_\_» \_\_\_\_\_\_\_\_\_ 20\_\_