

Korkyt Ata Kyzylorda University
Center for Professional Development and Additional Education



«Approved»

by the Chair of the Committee on
Academic Quality

B.B. Abzhalelov

« 01 » 03 2023

«WASTE STORAGE AND SORTING»
refresher course program


WORK PROGRAM

Hours: 42

Kyzylorda, 2023

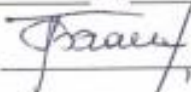
Work program considered at the meeting of EP «Electric Power Engineering Technosphere
Safety and Ecology»

Protocol № 1 «28» 08 2023

Head of EP  G.K. Sydykova

Work program reviewed and approved by the Institution of Engineering and Technology
Academic Quality Committee meeting

Protocol № «1» 31 08 2023

Chairman of the Quality Committee  B. B. Abzhalelov

Purpose: Provides an overview of ways to optimize the interaction between the environment and industry on the issue of waste storage, recycling and disposal while solving practical waste management problems.

Responsibilities:

- Problems of recycling and disposal of industrial and consumer waste;
- Characterization, classification of waste from various industries and understanding of waste storage, recycling and disposal processes;
- Study the scientific and applied aspects of waste storage, recycling and utilization, review methods and principles of waste management;
- Household solid waste, motor vehicle waste, agricultural waste, etc. consideration of recycling methods;
- Education of ways to utilize nature by forming a territorial industrial complex;
- Teaching people to make independent decisions promoting the use and utilization of waste in the sphere of economic activity and various productions.

Assignments: Types of waste in the environment and their classification in the process of learning Disabled.

«WASTE STORAGE AND SEGREGATION»

refresher course program

WORK PROGRAM

№	Program name	Clock volume	
		Theoretical hours	Practical hour
1.	17 areas of sustainable development	3 hours	1 hour
2.	Waste Concept. Classification of waste	3 hours	1 hour
3.	Environmental issues in waste recycling	3 hours	1 hour
4.	Some aspects of production and consumption waste management within the framework of the environmental legislation reform	3 hours	1 hour
5.	Peculiarities of management of certain types of waste under the reform of environmental legislation	3 hours	1 hour
6.	The most affordable recycling technologies	3 hours	1 hour
7.	Methods of treatment and management of agricultural waste	3 hours	1 hour
8.	Hazardous industrial waste and its disposal	3 hours	2 hour
9.	Waste management	3 hours	1 hour
10	World experience in waste management	3 hours	2 hour
All of them:		30 hours	12 hours
All of them:		42 hours	

Literature used:

1. Ecological Code of the Republic of Kazakhstan (with amendments and additions as of 17.12.2020).
2. Akbasova A.J., Sainova G.A. Ecology: textbook for higher educational institutions. - Almaty: Bastau Publishing House, 2003.-292 p.
3. The concept of sustainable development for 2007-2024. MOSRK.
4. Korobkin V.I., Peredelsky L.V. Ecology.- Rostov n/D: "Phoenix" Publishing House, 2001 - 576 p.
5. Duambekov M.S., Tlebaeva G.M. Fundamentals of industrial ecology.-/Teaching and methodical complex.- Astana: Foliant, 2004. Lot No. 108.-196 p.
6. Nikitin D.P., Novikov Y.V. Environment and people: Educational aid For study. Vuzov.- 2nd ed., rework. and ball. M.: Higher. Shk., 1986.-415 p.
7. Development Strategy of Kazakhstan until 2030.
8. Sanitary Rules for Construction and Maintenance of Landfills Ministry of Health of the Republic of Kazakhstan.
9. Plant for sorting and processing of MSW, (SPTBO) in the city of Karaganda, PK Yenbekshi.
10. "Actual problems of ecology and nature management in Kazakhstan and adjacent territories" Materials of the international scientific-practical conference. Pavlodar izd._PGU, 431 pp.
11. Ermekov T.E. and others. Development of the program of solid waste management in Astana. Conference material - Astana, pp. 215-217.
12. State of domestic wastes in RK. MEP RK. Committee for Environmental Regulation and Control. Waste management.
13. Zayadan B.K. Environmental Biotechnology. Tool for reading. Almaty : Publisher "Liter", 2013.
14. Kuznetsov A.E., Gradova N.B. Scientific bases of ecological biotechnology.-M.Mir, 2006.
15. Akimova TA, Haskin VV. Ecology. Man - Economy - Biota - Environment: Textbook for Uzov.-2nd izd.pererabrab. i ball. - M: UNITY-DANA, 2001. - 566 c.
16. Ecological biotechnology: per. Edited by K. F. Froster, D. A. J. Weise, 1990.
17. Industrial Microbiology / Edited by N. S. Egorova-M. Higher School, 1985.
18. Waste Classifier of the Republic of Kazakhstan 2.06.2007/4775
19. Low-carbon development - Kyoto Protocol: Kazakhstan, Russia Zharkyn Co Publishing House
20. Kopylov M.N., Kopylov S.M. Forgotten facts from the history of international environmental law: UN Conference on conservation and utilization of resources in 1949.
21. Guman O.M. Ecological and geological conditions of solid domestic waste landfills in the Middle Urals: Cand. D. in Geology and Mineralogy, 2009. _342c.
22. Program of modernization of the system of solid domestic waste handling for 2014-2050.
23. Ecological Code of the Republic of Kazakhstan Code of the Republic of Kazakhstan dated January 9, 2007.