

## Final Report

on the implementation of the grant ECE/GC/2017/07/013 "Improved understanding of key water management issues by mid-level government officials"

### under the UNDP / UNECE project "Supporting Kazakhstan's Transition to a Green Economy Model"

Kazakh-German University 15<sup>th</sup> of August – 15<sup>th</sup> of December, 2017

#### *Narrative report prepared by the German-Kazakh University*

#### **1. BACKGROUND AND CONTEXT**

Within the framework of the UNECE/UNDP project "Supporting Kazakhstan's transition to a Green Economy Model", German-Kazakh University was responsible to implement the following tasks under the grant ECE/GC/2017/07/013:

- Development of the curricula (programme) of the training - August 15, 2017 – August 30, 2017
- Development of training materials covering policy, administration and economy of water management and a short general synopsis – August 15, 2017 – September 25, 2017
- Organization of training for civil servants on Integrated Water Resources Management in collaboration with the State Academy of Management under the President of the Republic of Kazakhstan (State Academy) – October 4-6, 2017 (dates are tentative)

Below is the description of activities implemented under each of the above tasks.

#### **Task I: Development of training curricula (Annex 4: part 1 and 2)**

The training curricula was developed in accordance with the adopted manuals themes. Following the pattern of the project grant MOU № ECE.GC.2016.10.033, this project consisted of the two main activities: (1) adaptation of the current training manuals for civil servants: one for the training on the economic aspects, one for the training on the legal aspects and one on the legal aspects of IWRM and developing of the synopsis for the manuals. The second activity was the (2) curricula development

Activity 1. Adaptation of the current training manuals for civil servants and developing of the synopsis for the manuals:

Adaptation of the manuals and writing the synopsis started in October 2017. The following national experts were employed for adaptation of the manuals:

<b>Thematic module</b>	<b>National experts</b>	<b>Key notes</b>
Legal aspects of IWRM	Akhmetov Serik – Director of the Branch of the Institute of Geography- International Water Assessment Center, PhD	Fundamentals of international law, main international agreements in the field of environmental protection, regional agreements
Political aspects of IWRM	Nikolayenko Aleksandr– Regional Adviser of the Program on Transboundary Water Resources Management in Central Asia, GIZ	Basis for the formation of a water management base in the Republic of Kazakhstan
Economic aspects of IWRM	Sadykov Nurislam– Associate Professor, Teacher of the Faculty of Economic Sciences, German - Kazakh University	Classical and alternative methods for estimating the cost and cost of water in the Republic of Kazakhstan.

All contributions were submitted by experts in due time. All parts of the manuals as well as the synopsis were checked for proof reading by the Zhakenov Muhtar the vice director of the Committee on Water Resources of Kazakhstan. Each manual contain images that have been adapted for printing.

Each of the three manuals, as well as synopsis were printed in 25 copies (for participants, experts and organizers). Copy of the curricula was sent to the Institute of the Continuing Education Department of the State Academy (responsible person Kadyrova M.B)

### **Task II: Development of training materials**

Manuals and synopsis for government officials were developed on the basis of the materials evolved in 2016 for water related trainers. All materials were transferred to the experts for adaptation, reduction and synopsis development. Afterwards all materials were transferred to the Committee of Water Resources of Republic of Kazakhstan for commenting and final approval. Manuals and synopsis were proofread by the corrector and designed according to the previous materials template.

After completing the series of trainings under the grant ECE/GC/2017/07/013 all electronic versions of the materials will be transferred to the State Academy for dissemination upon government officials. Also all materials will be published at the UNECE and DKU websites to be used as self-educating materials for various target audience. DKU has an intention to use developed study materials for studying purposes including dissemination among IWRM students and partner universities upon request.

### **Task III: Organization of training for civil servants on Integrated Water Resources Management**

The training was held for mid-level government officials on key aspects of water management. This training was organized after two successful trainings for teachers of higher educational institutions, which were held in 2016 and 2017. The training materials which were used for developed according to the content of the training were checked on compliance via Committee on Water Resources of the Republic of Kazakhstan.

The number of participants in the event included 12 of various government organizations working in the water sector and related industries, including the Ministry of Water and Energy Resources, the Ministry of Agriculture of the Republic of Kazakhstan.

## **2. OBJECTIVES AND TASKS**

The main goal of the training was to provide participants with an interdisciplinary perspective on the various components of integrated water resources management, both nationally and internationally. The objectives of the training are:

1. Acquaint participants with the legal, political and economic aspects of water resources management at the international, regional and national levels;
2. Strengthen the capacity of young mid-level government officials responsible for water management at the national level;
3. Establish strong regional cooperation between employees of state organizations of the water sector.

### **Activity 2: Organization of training of trainers on Integrated Water Resources Management**

The three-day training was held at the Academy of Public Administration under the President of the Republic of Kazakhstan in Astana (October 30 -1 November 2017). During this training, participants took part in lectures and practical exercises on key aspects of water resources management at the regional and national level. The training program is attached in Annex 2.

The first day of the training was devoted to the political aspects of water resources management at the international and national levels. The trainer was the regional adviser of the Program on Transboundary Water Resources Management in Central Asia, the German Society for International Cooperation (GIZ) - Alexander Nikolayenko.

The participants were acquainted with the modern legal and regulatory framework for water resources management, as well as with institutional mechanisms for water resources management in the Republic of Kazakhstan. After lunch, group work was carried out, in which the participants of the training addressed issues on integrated water resources management at the local level.

The second day of the training was devoted to the economic aspects of water resources management, which was conducted by the teacher of the Faculty of Economic Sciences German- Kazakh University, PhD – Sadykov Nurislam. During the training, the participants got acquainted with classical and alternative methods for estimating the cost and cost of water in the Republic of Kazakhstan, and also tried to calculate the cost of tariffs and estimate the costs of water consumption.

The third day of the training was dedicated to the legal aspects of water resources management. As part of the training, participants updated their knowledge of the legislative framework governing the management of water resources in the Republic of Kazakhstan. The trainer was the director of the Branch of the Institute of Geography - International Water Assessment Centre, Ph.D. – Akhmetov Serik.

A total number of participants were 25 civil servants from the following organization of the Republic of Kazakhstan:

1. Ministry of Internal Affairs (MOI)
2. Ministry of Agriculture (MoA), Committee on Water Resources -
3. Ministry of Energy,
4. Ministry of Economy and the Ministry of Foreign Affairs (MFA)
5. Committee on water resources, Kostanay region
6. Committee for Environmental Regulation and Control, NKR (Petropavlovsk)
7. Committee for Environmental Regulation and Control, Akmola region
8. Emergency Committee, Akmola region (Kokshetau)
9. Committee for Environmental Regulation and Control, Kostanay region
10. Committee for Regulation of natural monopolies, protection of competition and consumer rights (Astana)
11. Committee for Environmental Regulation and Control
12. Department of Environmental Monitoring and Information

On the gender aspect, 15 women and 10 men took part in the training.

## **FEEDBACK FROM THE PARTICIPANTS**

### **Questionnaires**

At the end of each training session, the participants were asked to fill out the evaluation forms of the training on the following grounds:

- the quality of the training organization,
- the quality and scientific novelty of the handout material,
- the quality of teaching the material by the lecturers.

The participants were also asked to leave written comments on the training and the manual. A total of 25 participants have filled in the questionnaires.

According to organization of the training participants were asked to grade training venue and equipment, logistical support and accommodation. The participants have given the following comments **to the training**:

1. The training is well organized logistically.

2. The mode of the training allows the participants to interact freely with each other and the experts, and allows time and space for discussion, which is beneficial for the learning process and the networking as well.
3. The age structure and diverse backgrounds of the audience has allowed to exchange experience between the participants and contribute to the discussions with diverse arguments.

The participants gave a high grade to the organization of the training (accommodation, training venue and equipment, interpretation, logistical support etc.), the average grade is 4,8.

Regarding to the manuals, the participants were asked to grade each of three manuals on novelty and fulfill information and grading content. Participants noted that, in general, the material presented in manuals was new to them, but some of participants noted that more information would not be superfluous. The average grade is 4.5.

The participants have given the following comments to the manuals:

1. The content of the training (use) is excellent, satisfactory. The participants noted that the information provided by the experts - trainers was not always relevant (training content was mostly on theory without involving practical examples), and the statistical data<sup>1</sup> presented on the water resources of the RK were not sufficiently spelled out;
2. The presentation of the training is excellent, good. The majority of participants of the training highly appreciated the quality of the presentations of the training and noted a sufficient amount of information in the presentations.

Concerning the quality of lectures and practical exercises, participants evaluated the methods of training, the quality of the discussions and the most interesting part of the training. Participants assessed the training method as appropriate, but some participants noted that group work <sup>2</sup>was not enough to consolidate the material. The average score is 4.5.

In accordance with the completed training evaluation form, it was revealed that the majority of those involved were particularly interested in and were acquainted with information on the legislative aspects of water management (11 votes), the second place on the importance of the information received was the session on the political aspects of IWRM (9 votes) received information on economic aspects of IWRM was the lowest (6 votes).

### **3. LESSONS LEARNT**

This training was held at a fairly high level, but to improve such training, it is necessary in the future:

1. Conduct more hands-on training on key aspects of water management;
2. Include in the training program the most problematic aspects of water resources management in the Republic of Kazakhstan.

As for the organization, the most important issue will be the organization of excursion trips to water or water management facilities, in order to demonstrate practical actions on water resources management in the field.

### **4. CONCLUSIONS and the way forward**

In general, the training was highly evaluated in accordance with the evaluation forms, participants noted that they, as professionals, found the training topics useful and intend to recommend their organizations to nominate representatives for the next such event, if such is planned. Participants agreed that the existing need to strengthen the capacity of young middle-level civil servants is a necessary component in achieving the goals of sustainable development and the transition to a green economy in the Republic of Kazakhstan.

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<sup>1</sup> Note : Following this comment, GKU has contacted the Water Committee and they provided the latest data to be presented at the next two trainings.

<sup>2</sup> Note : Next trainings will have more time for group work and interactive exercises.

Organizers are still in contact with the participants and institutions they represent to ensure the participation of other staff members representing these institutions in the second project cycle. New contacts were also established with institutions that were not represented at this time in order to involve a diverse group of participants.

## Annexes

Annex 1. Program of the Training

Annex 2. List of Participants of the Training

Annex 3: Form of evaluation

Annex 4: Curricula of the training

**Training for civil servants of the Republic of Kazakhstan on key aspects of water resources management in the Republic of Kazakhstan in conjunction with the UNDP/UNECE project “Kazakhstan’s support for the transition to a Green Economy Model”**

Academy of Public administration under The President of the Republic of Kazakhstan,  
Astana, Abayavenue, 33a, 000001  
30<sup>th</sup> of October – 1<sup>st</sup> of November, 2017

**Programme of the training**

**Experts:**

- Nikolayenko Aleksandr - regional Adviser of the Program on Transboundary Water Resources Management in Central Asia, German Society for International Cooperation (GIZ)
- Akhmetov Serik - PhD, director of the Branch of the Institute of Geography - International Center for Water Assessment.
- Sadykov Nurislam – PhD, Associate Professor, Teacher of the Faculty of Economic Sciences, German - Kazakh University

<b>Monday, October 30, 2017</b>	
<b>Lecturer: Nikolayenko Alexander - Regional Adviser of the Program on Transboundary Water Resources Management in Central Asia</b>	
9:30 – 9:40	Greeting speech Representative of the State. Academy Shakirzhanova Lyubov UNESCO Chair on Water Resources Management in Central Asia at the German - Kazakh University
9:30 – 10:20	Integrated water resources management. Introduction and historical aspects.
10:20 – 11:00	Transboundary water resources management
<i>11:00-11:20</i>	<i>Coffeebreak</i>
11:20 – 12:00	Basis for the formation of water management base on the Republic of Kazakhstan
12:00 – 12:50	Modern regulatory and legal framework for water resources management in the Republic of Kazakhstan
<i>12:50- 14:00</i>	<i>Lunch</i>
14:00 – 14:50	Modern institutional platform of water resources management in the Republic of Kazakhstan
14:50 – 15:40	Development of sustainable water use in the Republic of Kazakhstan
<i>15:40-16:00</i>	<i>Coffeebreak</i>
16:00 – 16:50	The economic mechanism of sustainable use and protection of water resources in the legislation of the Republic of Kazakhstan Group work

16:50-17:30	Basin principle of water resources management in the Republic of Kazakhstan
<b>Tuesday, October 31, 2017</b>	
<b>Lecturer: SadykovNurislam - Ph.D. , associate professor of CNU</b>	
9:30 – 11:00	System approach in integrated water resources management
11:00 – 11:20	<i>Coffee break</i>
11:20 – 12:50	Cost and price of water
12:50 – 14:00	<i>Lunch</i>
14:00 – 15:30	Classical and alternative methods for estimating the cost and price of water in the Republic of Kazakhstan. Recommendations for improving the use of economic instruments
15:30 – 15:50	<i>Coffeebreak</i>
15:50 – 17:30	Exercises to assess the cost and price of water. The abstract description of exercises in the system of integrated water resources management
<b>Wednesday, November 1, 2017</b>	
<b>Lecturer: AkhmetovSerik - PhD, director of the Branch of the Institute of Geography - International Center for Water Assessment</b>	
9:30 – 10:00	Fundamentals of international legislation in the field of protection and use of transboundary waters (Background)
10:00 – 11:00	The main international agreements on the protection and use of transboundary waters (the UN Watercourses Convention, the Water Convention)
11:00-11:20	<i>Coffee break</i>
11:20 – 12:00	The main international agreements in the field of environmental protection related to the use and protection of transboundary waters
12:00 – 12:50	Main international agreements in the field of marine environment protection
12:50 – 14:00	<i>Lunch</i>
14:00 – 14.30	<i>Delivery of the certificates</i>
14:30 – 15:50	Regional agreements: the Agreement between Kazakhstan and Kyrgyzstan, the Agreement between Kazakhstan and the People's Republic of China, the Agreement between Kazakhstan and Russia
15:50 – 16:10	<i>Coffee break</i>
16:10 – 16:50	Legal basis for water resources management in Kazakhstan
16:50 – 17:20	Regional agreements: Agreement on the Aral Sea Basin
17:20-17:30	<i>Closing Ceremony</i>

## Annex 2.

**List of participants on the training for civil servants of the Republic of Kazakhstan on key aspects of water resources management in the Republic of Kazakhstan in conjunction with the UNDP / UNECE project "Kazakhstan's support for the transition to a green economy model"**

Academy of Public administration under The President of the Republic of Kazakhstan, Astana, Abay avenue, 33a,  
000001

**30<sup>th</sup> of October – 1<sup>st</sup> of November, 2017**

№	ФИО	Город/страна	Должность	Контакты
<b>Trainers</b>				
1	Nikolayenko Aleksandr	Almaty, Kazakhstan	Regional Adviser of the Program on Transboundary Water Resources Management in Central Asia, GIZ	
2	SadykovNurislam	Almaty, Kazakhstan	Associate Professor, Teacher of the Faculty of Economic Sciences, German - Kazakh University	
3	AkhmetovSerik	Astana, Kazakhstan	Director of the Branch of the Institute of Geography, International Center for Water Assessment, Ph.D.	
<b>Civil servants</b>				
1	MendybayevaOrynkyz	Kostanay, Kazakhstan	Ministry of Internal Affairs, Emergency Committee, Kostanay region	
2	Myrzakhmetov Aidar	Kostanay, Kazakhstan	Ministry of Agriculture, Committee on Water Resources, Kostanay region	
3	Nikonenko Irina	Kostanay, Kazakhstan	Ministry of Agriculture, Committee on water resources, Kostanay region	
4	Bakishev Askhat	Petropavlovsk Kazakhstan	Ministry of Internal Affairs, Emergency Committee, NKR	
5	Maikina Gulsara	Pavlodar, Kazakhstan	Ministry of Internal Affairs, Emergency Committee, Pavlodar region	
6	IskakovKanat	Karaganda, Kazakhstan	Ministry of Internal Affairs, Committee for Emergencies, Karaganda region	
7	Mapenov Askhat	Petropavlovsk Kazakhstan	Ministry of Energy, Committee for Environmental Regulation and Control, NKR	
8	Derbassova Mariya	Kokshetau, Kazakhstan	Ministry of Energy, Committee for Environmental Regulation and Control, Akmola region	

9	Akhmetzhanova Assel	Karaganda, Kazakhstan	Ministry of Energy, Committee for Environmental Regulation and Control, Karaganda region	
10	Berlibekov Yerken	Kokshetau, Kazakhstan	Ministry of Internal Affairs, Emergency Committee, Akmola region	
11	Kassymov Alnabat	Pavlodar, Kazakhstan	Ministry of Energy, Committee for Environmental Regulation and Control, Pavlodar region	
12	Yesseneyev Yerlan	Kostanay, Kazakhstan	Ministry of Energy, Committee for Environmental Regulation and Control, Kostanay region	
13	Taibasarova Zhanar	Astana, Kazakhstan	Ministry of Economy of the RK, Committee for Regulation of natural monopolies, protection of competition and consumer rights	
14	Seitmagambetova Veronika	Astana, Kazakhstan	Ministry of Economy of the RK, Committee for Regulation of natural monopolies, protection of competition and consumer rights	
15	Satybaldina Raushan	Astana, Kazakhstan	Ministry of Internal Affairs of the Republic of Kazakhstan, Committee for Emergency Situations, Office of Emergency Prevention	
16	Shakirova Torgyn	Astana, Kazakhstan	Department of Environmental Monitoring and Information	
17	<b>Tungyshbaeva Gulhbanu</b>	Astana, Kazakhstan	<b>Committee for Environmental Regulation and Control</b>	
18	Zhedigeruly Medet	Astana, Kazakhstan	Ministry of Agriculture, Water Resources Management Department	
19	Shalmaganbetova Saule	Astana, Kazakhstan	Ministry of Agriculture, Water Resources Management Department	
20	Suyndykov Maksat	Astana, Kazakhstan	Ministry of Foreign Affairs, Department of Central Asian Cooperation	
21	Kurmankulova Nazym	Astana, Kazakhstan	Ministry of Foreign Affairs, Department of Central Asian Cooperation	
22	Mazhenov Aymakbay	Astana, Kazakhstan	Ministry of Agriculture, Republican state institution, "Esil basin inspection on regulation of use and protection of water resources"	
23	Bayanbekova Pabega	Astana, Kazakhstan	Ministry of Agriculture, Republican state institution, "Esil basin inspection on regulation of use and protection of water resources"	
24	Omarov Meyram	Astana, Kazakhstan	Ministry of Agriculture, Republican state institution, "Esil basin inspection on regulation of use and protection of water resources"	
25	Murzagalieva Alya	Astana, Kazakhstan	Ministry of Agriculture, Nura-Sarysu Basin Inspection	

Organizers				
1	Aleksandrovskaia Ekaterina	Bishkek, Kyrgyzstan	Project assistant, UNESCO chair on water resource management, German – Kazakh university	
2	Shakirzhanova Lyubov	Almaty, Kazakhstan	Master program assistant of UNESCO Chair on Water Resources Management in Central Asia, German - Kazakh University	
3	Seitkazina Zhanar	Almaty, Kazakhstan	Head of Marketing and Program Administration, Institute of Additional Education for Civil Servants, Academy of Public Administration under the President of the Republic of Kazakhstan	

Annex 3.

### Form of evaluation

How long before training did you receive an invitation?							
What else did you receive besides the invitation? (materials, manuals, etc.)?							
Were the objectives set out at the beginning of the training?	Yes	No					
Did the training correspond to its stated goals?	Yes	Partially	No				
Please leave your comments regarding the aims, objectives and results of the training							
Please rate by the following criteria, where 5 is the highest score, and 1 is the lowest		5	4	3	2	1	
Overall quality of trainings	Excellent						poorly
Were the training methods appropriate?	Appropriate						Not at all
Is the content of the training useful for their application in your work?	Usefull						Useless
Did you receive information and knowledge that is new to you?	All						Not at all
How would you rate the presentations of the training?	High						Low
How would you rate the discussion during the training?	High						Low
Did you have an opportunity to discuss the issues that interest you?	Fully						Not at all

Would you recommend this training to your colleagues?	Absolutely							Not at all
What part of the training was the most important for you?								
Please, give us some recommendations on what could be improved in carrying out similar trainings next time.								
<b>Please, evaluate the organization of the training in Almaty, by rating from 1 to 5</b>								
Accommodation								
Transfer								
Dinner								
Coffe-breaks								
Logistic support								

Annex 4

#### Curricula of the training for civil servants of the Republic of Kazakhstan. (Part 1)

No	Activities	Time period (dd/mm/2017)	Executor
1	Development of training manuals and synopsis writing of the political, legal and economical aspects of IWRM	15/08 - 15/09	National experts
2	Proofreading of the draft manuals and synopsis on political, legal and economical aspects of IWRM	15/09 – 25/09	Committee on Water Resources of the Ministry of Agriculture of the Republic of Kazakhstan
3	Updating the Manuals and synopsis on political, legal and economical aspects of IWRM	25/09 – 01/10	National experts
4	Development of a training plan in cooperation with the State Academy	15/09 – 01/10	GKU/State academy
5	Drawing up a list of participants and maintaining correspondence with them	04/10-29/10	GKU/State academy
6	Logistic Support of the training (tickets, booking hotel, coffee-breaks, lunches, dinners)	10/10-25/10	GKU
7	Preparation and printing materials for the training (agenda, manuals, synopsis, list of participants, certificates etc.)	23/10 – 29/10	GKU
8	Travel to Astana and conducting training on key aspects of IWRM in Astana	30/10 – 01/11	GKU/State academy/National experts
9	Financial report of the conducted training	01/11 – 30/11	GKU

10	Narrative report writing	01/11 – 30/11	GKU
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### Curricula of the training for civil servants of the Republic of Kazakhstan. (Part 2)

Topic	Description	Objective	Time period	Method
<b>Political aspects of IWRM (9<sup>th</sup> of April 2018)</b>				
<i>Trainer: Nikolayenko Alexander - Regional Adviser of the Program on Transboundary Water Resources Management in Central Asia</i>				
Training Process	Introduction, general information, overview of the agenda, participants short presentations.	To ensure trainees are familiar with training logistics, their role and the instructor's role, and the material that will be covered.	30 minutes	classroom training
Integrated water resources management. Introduction and historical aspects. Transboundary water resources management	The trainer introduces into the course of the basic concepts of integrated water management. After completing the presentation, he answered on the questions from the participants.	To ensure trainees have a general understanding of the IWRM and how this approach is structured.	1.5 hours	classroom training
Basis for the formation of water management base on the Republic of Kazakhstan	On the example of the Republic of Kazakhstan the trainer outlined the key tasks of the country for the development of water management in the countries of Central Asia.	Inform the participants about the main trends in the development of water management, on the example of their own country.	40 min.	classroom training
Modern regulatory and legal framework for water resources management in the Republic of Kazakhstan Modern institutional platform of water resources management in the Republic of Kazakhstan	Description of the various laws and agreements for navigating water management on the Republic of Kazakhstan. Trainees make entries at their workbook when instructed by the trainer (summary).	To ensure trainees know how to interpret the water laws and obligations and how is work institutional mechanism nowadays.	1.5 hour	classroom training / discussion
Development of sustainable water use in the Republic of Kazakhstan (Training Exercise)	Development of skills of drawing up a plan for sustainable development of water resources in the Republic of Kazakhstan	Teach the trainees the right approaches to sustainable water management at both the local and transboundary levels.	50 min.	Training Exercise
The economic mechanism of sustainable use and protection of water resources in the legislation of the Republic of Kazakhstan	Review how to work with legislative system of the Republic of Kazakhstan. Trainees make entries at their workbooks when instructed by the trainer.	To ensure trainees know how to work with legislative system of their country.	50 min.	classroom training

Basin principle of water resources management in the Republic of Kazakhstan	Trainees complete a number of exercises on basin plan management.	To ensure trainees understand how to manage the water sector on basin level.	40 min.	Training Exercise
<b>Legal aspects of IWRM (10<sup>th</sup> of April, 2018)</b> <i>Trainer: Petrakov Igor Alexandrovich – Water Committee Adviser,  Ministry of Agriculture Republic of Kazakhstan</i>				
Topic	Description	Objective	Time period	Method
Training Process	Introduction, general information, overview of the agenda.	To ensure trainees are familiar with training logistics, their role and the instructor's role, and the material that will be covered.	10 min.	classroom training
Fundamentals of international legislation in the field of protection and use of transboundary waters (Background)	The trainer introduces into the course of the basic convention on water protection.	To ensure trainees have a general knowledge of the main conventions and how its implemented by countries.	1.5 hours	classroom training
The main international agreements on the protection and use of transboundary waters (the UN Watercourses Convention, the Water Convention)  The main international agreements in the field of environmental protection related to the use and protection of transboundary waters	The trainer introduces into the course of the basic convention on water protection on transboundary river basins (obligatory, polluter pay principles etc.). Trainees make entries at their workbook when instructed by the trainer (summary).	To ensure trainees have a general knowledge of the two main conventions (the UN Watercourses Convention, the Water Convention) and how its implemented by countries.	1 hour	classroom training
Main international agreements in the field of marine environment protection	Description of the various international agreements on marine environment protection.	To inform the trainees about the conventions for the protection of the marine environment for general development, as well as to understand the way to prevent the catastrophe of the Aral Sea.	50 min.	classroom training / discussion
Regional agreements: the Agreement between Kazakhstan and Kyrgyzstan, the Agreement between Kazakhstan and the People's Republic of China, the Agreement	Description of the various Regional agreements, which were signed by Kazakhstan and their results of work.	To inform the trainees about regional agreements.	1.5 hour	classroom training / discussion

between Kazakhstan and Russia				
Legal basis for water resources management in Kazakhstan (Training Exercise)	Review how to work with legislative system of the Republic of Kazakhstan. Trainees make entries at their workbooks when instructed by the trainer.	To ensure trainees know how to work with legislative system of their country.	40 min.	Training Exercise
Regional agreements: Agreement on the Aral Sea Basin (Training Exercise)	Introduction on the regional agreement on the Aral Sea basin and its regional organizations work with.	To ensure trainees know how to implement the international law into national.	30 min.	Training Exercise
<b>Economical aspects of IWRM (11th of April, 2018)</b> <i>Trainer: Sadykov Nurislam - Ph.D. , associate professor of GKU</i>				
Training Process	Introduction, general information, overview of the agenda.	To ensure trainees are familiar with training logistics, their role and the instructor's role, and the material that will be covered.	10 minutes	classroom training
System approach in integrated water resources management  Classical and alternative methods for estimating the cost and price of water in the Republic of Kazakhstan. Recommendations for improving the use of economic instruments	The trainer introduces into the system approach in integrated water resources management and learn the main statistical methods of water rate.	To ensure trainees have a general understanding of the agreement for the Aral Sea basin and how its work on national level.	2 hours	classroom training
Cost and price of water (Training Exercise)	Calculation of tariffs for water depending on various conditions of water consumption	To teach the trainees how to calculate the basic statistics for water tariffs.	40 min.	Training Exercise
<b>Certificates awarding</b>				
Field trip to Mangyshlak Nuclear Power Plant	Practical use of water resources for water supply of the whole city	To show the trainees how to manage water resources practically at the local level, as well as the process of desalination of water	3.5 hours	Field trip