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Erasmus+ Programme  
of the European Union



# Meeting with employers at KEEU Kostanay Kazakhstan May 15 2020

Dual Education for Industrial Automatization and Robotics  
in Kazakhstan  
[DIARKAZ]

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Project acronym:	DIARKAZ
Project full title:	Dual Education for Industrial Automatization and Robotics in Kazakhstan
Project No:	609757-EPP-1-2019-1-RS-EPPKA2-CBHE-JP
Funding scheme:	ERASMUS+
Project start date:	January 15, 2020
Project duration:	36 months

Abstract	This document is the report about meeting with employers, at Kostanay (Kazakhstan), on May 15 2020.
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Title of document:	Meeting with employers at KEEU Kostanay Kazakhstan, May 15 2020 Report title
Work package:	1. Development of dual study program in IAR
Activity:	1.2 Development of learning outcomes and competencies
Last version date:	21/05/2020
File name:	KEEU meeting with employers report
Number of pages:	11
Dissemination level:	International

## VERSIONING AND CONTRIBUTION HISTORY

Version	Date	Revision description	Partner responsible
1.0	18/05/2020	First draft	KEEU
2.0	21/05/2020	Technical corrections	UNS

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**The meeting began** with welcome speeches by the KEEU Rector Dr. Marat Bayandin, Head of the SaryarkaAvtoProm LLP Corporate University Lyudmila Olkinyan, President of the Kazakhstan Association of Automation and Robotics Vladimir Turekhanov and Commercial Director of "Advanced Business Technologies" LLP Yerlan Meirambaev.

After that, Marat Bayandin introduced the meeting participants. The meeting was attended by the project partner of SaryarkaAvtoProm LLP represented by the head of the Corporate University L. Olkinyan, the head of the Personnel Training and Development Center M. Aubakirova, the chief mechanic M. Shcherbakov, the instrumentation engineer S. Makayev, associates project partners president of the Kazakhstan Association of Automation and Robotics V. Turekhanov and director of the training division of the Group of companies Festo AG & Co S. Kuskov. In addition to the partner organizations of the project, representatives of other enterprises of Kazakhstan took part in the meeting: Director of Kostanayenergo LLP M. Mukuzhanov, HR manager K. Ilgundinova and Head of Sales Department I. Birzhanova "Transtelecom" JSC in the city of Kostanay - "Kostanaytranstelecom", chief engineer of "Kelet" JSC V. Mishchenko, technical director A. Shankin and sales manager R. Ussenov TKR holding company, head of educational programs and mentoring of MOST business incubator D. Babich, director of development of BI practice at iQSolutions, founder of Data Science Academy M. Dolayev, general director of KazTechInnovations company T. Balbayev, automation engineer of "Kostanay Minerals" JSC E. Kryssenko, Commercial Director of "Advanced Business Technologies" LLP Ye. Meirambayev.

In the end of program's first part project coordinator Zhanat Jabassova presented a brief information about the project.

**The second part** of the meeting with employers began with a report by KEEU project manager Oleg Moiseenko. He presented the skills and competencies needed by graduates of the Industrial Automatization and Robotics educational program. The information presented was the result of an analysis of professional standards "Maintenance and repair of equipment of automated process control systems in electric networks" and "Maintenance and software support of robots". After that, the project researcher Inna Gerauf presented the draft educational program "Industrial Automatization and Robotics".

**The third part** of the meeting with employers was discussion. The following issues were presented for discussion:

1. Necessary skills and competencies of graduates in employment,
2. The content of the educational program,
3. The opportunity for employers to participate in a dual educational program (definition of tutors, disciplines studied at the enterprise),
4. The methodology of organizing dual study ("university-enterprise" study scheme, number of students, etc.),

5. Providing students with the opportunity to carry out and defend their bachelor thesis on the enterprise (a question about the confidentiality of information in the enterprise),
6. The necessary training equipment.

The main project partner of KEEU for the implementation of dual study SaryarkaAvtoProm LLP took an active part in the discussion. Colleagues from SAP confirmed the possibility of practical training of university students at the enterprise for 2-3 months, but could not give an answer whether they would allow students to work really. This question and questions about the number of students, tutors and disciplines need to be discussed additionally. Employees of the enterprise proposed to create a university department at their enterprise with the placement of educational equipment, which will be acquired in the project.

All of the participants in the meeting expressed their readiness to discuss cooperation in the framework of dual study.

After the meeting, the KEEU employers group was created in WhatsApp, in which all the meeting presentations, the draft educational program, discussion questions and the equipment list were posted. Also, the meeting participants were invited to take the questionnaire (link to the questionnaire - <https://www.surveio.com/survey/d/D7O3A1E3W2X2I5M2V>) and give feedback before May 25.

The meeting with employers was productive and allowed attracting new enterprises and specialists in the field of industrial automation and robotics to the project. But still, the development of a dual training program requires a more detailed discussion, which KEEU researchers plan to hold with employees of SaryarkaAvtoProm LLP in the near future.

# Meeting with employers

Location: KEEU, <https://join.skype.com/bZwFVNxpx4pc>

Time: May 15, 2020 15:00

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## AGENDA

14 <sup>45</sup> – 15 <sup>00</sup>	Connecting members	
<b>Part I</b> <b>Opening and welcome speeches</b>		
15 <sup>00</sup> – 15 <sup>20</sup>	Welcome speeches	Marat Bayandin Rector of KEEU
		Lyudmila Olkinyan Head of the SaryarkaAvtoProm LLP Corporate University
		Vladimir Turekhanov President of the Kazakhstan Association of Automation and Robotics
		Yerlan Meirambayev Commercial Director of "Advanced Business Technologies" LLP
15 <sup>20</sup> – 15 <sup>25</sup>	Project presentation	Zhanat Jabassova KEEU project coordinator
<b>Part II</b> <b>Presentation of the draft educational program</b>		
15 <sup>25</sup> – 15 <sup>35</sup>	Skills and competencies of graduates of the educational program "Industrial Automatization and Robotics"	Oleg Moisseenko KEEU project manager
15 <sup>35</sup> – 15 <sup>50</sup>	Draft of educational program "Industrial Automatization and Robotics"	Inna Gerauf KEEU project member
<b>Часть III</b> <b>Discussion</b>		

<p>15<sup>50</sup> – 17<sup>00</sup></p>	<p>Issues for discussion:  Necessary skills and competencies of graduates in employment,  The content of the educational program,  The opportunity for employers to participate in a dual educational program (definition of tutors, disciplines studied at the enterprise),  The methodology of organizing dual study ("university-enterprise" study scheme, number of students, etc.)</p>	<p>Participants</p>
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## Invited employers

№	Organization	Organization Brief	Full name of participant	Position
1	<b>SaryarkaAvtoProm LLP</b>	Domestic automaker, the only plant in Kazakhstan that meets the requirements of industrial assembly, in which welding, painting and body assembly operations are performed. SaryarkaAvtoProm LLP is the first and only production site on the territory of the Republic of Kazakhstan, which launched the production of passenger cars using the small knot method (CKD), as well as producing all types of vehicles.	Lyudmila Olkinyan	Head of the Corporate University
2			Meruert Aubakirova	Head of the Personnel Training and Development Center
3			Maxim Shcherbakov	Chief mechanic
4			Saken Makayev	Engineer
5	<b>Kazakhstan Association of Automation and Robotics</b>	Non-profit organization uniting on a voluntary basis companies interested in developing this market.	Vladimir Turekhanov	President
6	<b>Group of companies Festo AG &amp; Co</b>	A manufacturer of industrial equipment and automation systems located in Esslingen am Neckar, Germany. In 2003, a branch of a group of companies was opened in Almaty to provide technical and consulting support for the automation of production in the republics of Central Asia, accelerate the delivery of both individual pneumatic and electronic components and turnkey systems (control cabinets). In addition, the branch holds specialized practical trainings in (Electro) Pneumautomatics, (Electro) Hydroautomatics, Programming	Stanislav Kuskov	Director of the training division

		logic controllers (SPLC), Temperature, flow, pressure and tire technology.		
7	<b>Kostanayenergo LLP</b>	The domestic commodity producer, which is included in the list of commodity producers of Samruk-Kazyna JSC, produces the following types of goods and services: Production, assembly, commissioning and installation of switchboard equipment according to standard (standard) or design schemes for industrial and residential construction projects. Design and subsequent execution of Control Panels and Automation Shields according to the customer's technical specifications, taking into account the technological features of the construction site and the regulatory requirements applicable in the Republic of Kazakhstan.	Marat Mukuzhanov	Director
8	<b>"Transtelecom" JSC in the city of Kostanay - "Kostanaytranstelecom"</b>	One of the largest telecommunications operators of the Republic of Kazakhstan, specializing in telecommunications, digitalization and system integration in the field of IT, communications, automation and energy.	Kunsulu Ilgundinova	HR manager
9			Inesh Birzhanova	Head of Sales Department
10	<b>"Kelet" JSC</b>	Domestic producer and leader of the Kazakhstani market of general industrial and household equipment. The company produces and supplies a wide range of pumps, fans, electric motors, compressors, heating and heating equipment, shut-off	Vladimir Mishchenko	Chief engineer



		and control valves and much more from the best manufacturers of Russia, Italy, Poland, Germany, Hungary, the CIS countries and China. The activity of the enterprise has been repeatedly marked by eminent Kazakhstan and international awards. The most significant of them are the Arch of Europe in the category Gold for quality and management technology at the European level and the first place in the state competition - the exhibition "The Best Product of Kazakhstan".		
11	<b>TKR holding company</b>	The company is engaged in the development and implementation of innovative solutions: virtual simulators, interactive modules and systems for training, using modern 3D technologies.  The company's developments are aimed at training specialists, as well as to improve the skills of employees of various companies. With the help of the company's developments, it is possible to demonstrate professions of various kinds in real time.	Alexandr Shankin	Technical director
12			Ruslan Ussenov	Sales manager
13	<b>MOST business incubator</b>	Networking platform for creating and developing a business.	Dinara Babich	Head of educational programs and mentoring
14	<b>iQSolutions</b>	Kazakhstan company, founded by experienced specialists in the field of information technology.	Mirass Dolayev	Director of development of BI practice at iQSolutions,

		<p>It provides comprehensive IT services solutions for government agencies, large Kazakhstani companies and holdings. It performs the whole complex of work related to modern information technologies - from the project to installation, implementation and training of personnel.</p> <p>IT-integrator of SAP, Qlik, MES systems.</p>		founder of Data Science Academy
15	<b>«KazTechInnovations» Company</b>	<p>The plant is a full-cycle production, has its own design bureau and is located on the territory of the SEZ "PIT Alatau".</p> <p>The plant is equipped with modern equipment with numerical control and includes the following workshops:</p> <p>metalworking shop</p> <p>additive technology workshop;</p> <p>workshop for the production of products from composite material;</p> <p>plastic and silicone molding workshop;</p> <p>installation workshop for electronic products;</p> <p>electroplating shop.</p> <p>The presence of our own design office allows us to solve problems associated with the development of innovative products.</p>	Tair Balbayev	General director (engineer, entrepreneur)
16	<b>"Kostanay</b>	The only enterprise in the	Evgeniy	Automation

	<b>Minerals” JSC</b>	<p>Republic of Kazakhstan for the extraction and processing of chrysotile ores.</p> <p>A modern highly mechanized mining and processing enterprise, equipped with equipment of large unit capacity, with a sufficient level of mechanization and automation of technological processes.</p>	Kryssenko	engineer
17	<b>"Advanced Business Technologies" LLP ("ABiTech")</b>	<p>In the market since 2003 and has rich experience in the field of modern digital technologies (RFID, GPS, IoT).</p> <p>In 2018, ABiTech entered the TOP-4 innovative companies in Kazakhstan.</p> <p>The company offers a number of applied software products under the general name "ASKOU". With their help, such tasks as automated online control of the execution of maintenance of any equipment and buildings are solved; automated inventory of fixed assets and assets, automation of inventory of warehouses and much more. All software solutions allow you to use any identifier that is best suited in a particular situation: RFID, barcode, QR code, and photo-capture.</p>	Yerlan Meirambayev	Commercial Director