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Erasmus+ Programme
of the European Union



Meeting with employers at Zhangir Khan WKATU Uralsk, Kazakhstan August 18 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 Uralsk Kazakhstan, on August 18 2020.
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Title of document:	Meeting with employers at Zhangir Khan WKATU Uralsk, Kazakhstan, August 18 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:	20/08/2020
File name:	Zhangir Khan WKATU meeting with employers report
Number of pages:	9
Dissemination level:	International

VERSIONING AND CONTRIBUTION HISTORY

Version	Date	Revision description	Partner responsible
1.0	20/08/2020	First draft	Zhangir Khan WKATU

DISCLAIMER

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The meeting began with the welcome speeches of the rector of the Zhangir Khan West Kazakhstan agrarian technical University - Professor Askar Nametov.

Purpose: to discuss the issues necessary for the successful work of graduates ' competencies, to get students information about enterprises, to get acquainted with the main activities, development prospects, and requirements that the employer now puts forward to specialists.

The meeting was attended by: Directors of «Uralsk transformer plant» LLP N. M. Abdullaev, chief engineer of «Uralsk mechanical plant» LLP A. G. Harkin, head of the workshop JSC "West Kazakhstan machine-building company ZKMK" R. Rakhimberdin.N. and technical Director of «Glass-Service»LLP Sapakov A. Sh.

Our partners told us about their organizations and companies, shared their experience, and presented presentations. Employers thanked the teaching staff for the good theoretical training of students, noted their skills in working with computer and professional programs. The employers 'speeches contained information about the students' successful work experience and their warm attitude to production. Industrial practice added to the life experience, became a test of knowledge and personal qualities obtained at the University.

Representatives of industrial enterprises fully described the conditions that they create for their employees, as well as the requirements that are imposed on future specialists. The staff of our higher school adheres to the principles of socially responsible partnership, creates all conditions for active and fruitful work. Employers express their gratitude to students who have passed the internship, who are already working at enterprises and have had a positive reputation. Some of the students have already been invited to work after receiving their University degree.

During the meeting, there were questions about employment opportunities, career opportunities, internships, conditions for pre-graduate practice at enterprises.

At the end of the first part of the program, project member Gauhar Kamalova presented a summary of the project.

The second part of the meeting with employers began with the report of the project Manager of the Zhangir Khan WKATU - Askar Nametov. With the support of the heads of departments, we communicate directly with the heads of institutions in order to achieve understanding and establish interaction. Explain to employers the need to comply with legislation concerning both the provision of information about the need for employees, and regulating issues about jobs.

The economy today imposes high requirements on the level and content of professional education of its employees. Joining the Bologna process has brought about major changes in Kazakhstan's education. The state program for the development of education defines the main parameters and stages of reform. Now the main focus in education should be on the competencies and skills of future graduates, their suitability for practical work. In this regard, the main part of the training time in the bachelor's and master's programs is devoted to General professional and professional training.

Despite this, the education system is not yet able to fully meet the demands of the labor market- neither in terms of the quality of education, nor in terms of the output of exactly the workers that are necessary for its successful functioning. The degree of orientation of educational programs to the labor market is becoming a key indicator of the effectiveness of higher education and the quality of training. Vocational education should respond sensitively to the demands of the labor market, focusing on changing the situation. In addition to professional competencies, employees are required to have the ability to retrain, versatility, flexibility, ability to work in various teams, and quickly learn new technologies. In this regard, it is necessary to demonstrate innovation in teaching methods and the organization of the educational process.

After the report of the head, the project researcher Kanat Narikov presented the project of the educational program 6B07104 "Mechatronics"

The third part of the meeting with employers was a discussion. The following issues were discussed:

- development of a unified strategy for interaction of structural divisions with employers;

- formation of mechanisms for active participation of graduates of higher education (Department) in cooperation with strategic partners from among employers that have a significant impact on the labor market;
- development of a mechanism for attracting employers to participate in the educational process, evaluating educational programs, adjusting curricula;
- involvement of employers in joint research and production activities;
- activities aimed at creating a system of effective interaction with employers;
- formation of educational programs and adjustment of curricula;
- creating a list of competencies for each educational program at the request of employers.

Active participation in the discussion was taken by the main partner of the Zhangir Khan wkatu project for the implementation of dual training of Ural transformer plant LLP. The employer is an interested party in determining the goals and results of University training. Today, the relevance of the contribution of business and employers to the definition of the objectives and content of education has significantly increased. In fact, the question is posed in such a way that two equal parties should participate in the development of education – employers (business) and the academic community.

This changes the University's strategy to provide graduates with professional competencies that meet the requirements of the labor market. The main vector of today is the creation of a system of effective interaction between the University and employers, aimed at establishing a long-term mutually beneficial partnership.

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

The meeting with employers was productive and allowed attracting new enterprises and specialists in the field of industrial automation and robotics to the project

Meeting with employers

Location: Zhangir Khan WKATU,

Time: August 18, 2020 15:00

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AGENDA

14 ⁴⁵ – 15 ⁰⁰	Connecting members	
Part I		
Opening and welcome speeches		
15 ⁰⁰ – 15 ²⁰	Welcome speeches	Askar Nametov Rector of WKATU
		N. M. Abdullaev Uralsk transformer plant
		G. Harkin chief engineer of «Uralsk mechanical plant»
		Rakhimberdin.N. head of the workshop JSC "West Kazakhstan machine-building company ZKMK"
15 ²⁰ – 15 ²⁵	Project presentation	Gaukhar Kamalova WKATU project member
Part II		
Presentation of the draft educational program		
15 ²⁵ – 15 ³⁵	Skills and competencies of graduates of the educational program "Industrial Automatization and Robotics"	Askar Nametov Rector of WKATU
15 ³⁵ – 15 ⁵⁰	Draft of educational program "Industrial Automatization and Robotics"	Kanat Narikov WKATU project member
Part III		
Discussion		
15 ⁵⁰ – 17 ⁰⁰	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.)	Participants

Invited employers

№	Organization	Organization Brief	Full name of participant	Position
1	Uralsk transformer plant LLP	<p>Ural transformer plant LLP is the result of half a century of experience of JSC "Kantau transformer plant" with a new developed and implemented technology for the production of electrical equipment. The plant is a part of the holding company "Alageum Electric", which presents complete turnkey solutions from one hand on the electricity market:</p> <ul style="list-style-type: none"> -design; production of electrical products; -supply of industrial equipment and service; -construction and production of building materials; electrical installation and commissioning services. 	N. M. Abdullaev	production director
5	Ural mechanical plant LLP	<ol style="list-style-type: none"> 1. Production of spare parts, in particular crankshafts for MTZ tractor engines, GAZ, ZIL, PAZ cars, as well as for various special equipment with MMZ engines (d-241L, D242/242L, d-243/243L, D-244, D-245, D-245.12 s, D-245.7, D-245.7E2, D-245.9, D-245.9E2 engines). Production of spare parts is carried out on special flow-mechanized lines equipped with specialized equipment; 2. Production of a wide range of building materials, in particular paving tiles of several names, curbs, wall and partition stones; 3. production of galvanized and polymer-coated profiled sheet on modern Finnish high-tech equipment that ensures high quality of finished products; 4. the Plant has a license to 	G. A. kharkin	Chief engineer

		<p>carry out production activities related to the repair and manufacture of oil and gas field and drilling equipment.</p> <p>The plant also has a repair and tool production facility equipped mainly with universal equipment that allows performing all types of mechanical processing, including processing of large-sized parts.</p> <p>Production of non-standard equipment is organized. In the workshop for the production of non-standard equipment, products of any complexity and purpose are manufactured on orders of third-party organizations. The technical capabilities of the company allow us to successfully cope with complex tasks, including the complex execution of customer tasks, from the joint preparation of technical specifications and the development of detailed drawings to the installation of non-standard equipment and metal structures.</p>		
6	"West Kazakhstan machine-building company ZKMK"	<p>SC "West Kazakhstan machine-building company" JSC "ZKMK" is an enterprise with thirty years of experience and developed infrastructure of machine-building. The plant is one of the leading enterprises in Kazakhstan for the development and production of high-tech equipment:</p> <ul style="list-style-type: none"> -for oil and gas production and treatment; -for the transportation of oil and gas; -power equipment; - complex metal structures; - construction equipment; -other engineering products. 	Rakhimberdin R. N.	Shop Manager

		<p>Our production is equipped with a high-tech fleet of equipment, including: welding, metal bending, metal cutting, Metalworking, foundry, forging, thermal and electroplating equipment, which allows us to produce a wide range of engineering products.</p> <p>The company has a highly qualified personnel potential, which, if you have a lot of experience, allows you to solve a wide range of tasks for the production of equipment.</p> <p>An accredited testing center allows you to perform all methods of control of incoming materials and products.</p> <p>The main activities of the engineering and design center are: development and design of design and technological documentation of products in electronic form; providing engineering and consulting services in the development and design of new technologies and equipment.</p> <p>The geographical location of the company - on the border with the industrial regions of Russia: Samara, Saratov, Volgograd, Orenburg, Astrakhan and oil and gas producing regions of Kazakhstan, allows you to quickly and efficiently solve the problems of interaction with suppliers and customers.</p>		
7	«Glass-Service" LLP»	<p>"Glass-Service" LLP is a specialized domestic enterprise for the production of double-glazed Windows and complex processing of various types of glass. The company was founded in 2001. Our own production base, equipped with advanced modern equipment, as well as a warehouse for storing glass, which allows you to ensure the constant availability of</p>	Sapakov A. Sh.	Technical Director

		<p>materials and smooth operation of production, is located in Uralsk. The product range of "Glass-Service" LLP:</p> <ol style="list-style-type: none"> 1. double-glazed Windows (single-chamber, double-chamber): <ul style="list-style-type: none"> - General construction; -energy-saving; -sunscreen; - noise insulation; - protective and safe; -multifunctional; -structural. Double-glazed Windows can also be made in a design with a decorative layout. 2. Triplex (multi-layer safety glass); 3. Duplex (laminated glass with one side); 4. Tempered glass; 5. Smart-glass (glass that becomes transparent or opaque when an electric voltage is applied to it); 6. The glass processing (the straight and curved cut, drilling of glass and mirrors); 7. glass Enameling (the glass surface is covered with a layer of glass enamel, and then subjected to quenching or thermal hardening); 8. Cutting glass, including decorative glass. <p>Due to the universal equipment, "Glass-Service" LLP is one of the few companies in Kazakhstan that processes Jambo glass in the format (6000x3210mm).</p>		
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