



# Newsletter



Issue #6 | 29.06.2016



## KAZAKSTAN WELDING ASSOCIATION «KAZWELD»

### IN THIS ISSUE:

### Kazakhstan got the Team Silver Winner Prize at the 2016 (4<sup>th</sup>) Beijing "Arc Cup" International Welding Competition



countries such as the USA, Canada, Germany, Austria, Russia, Ukraine, Belarus, Bulgaria, Romania, Singapore, South Korea, Indonesia, Mongolia, the Czech Republic, Slovakia, Thailand, India, Ghana, Serbia, Portugal, Vietnam, Malaysia, the Philippines, South Africa, etc took participation at the competition.

Kazakhstan was represented by welders of KazTransOil JSC, Tulpar Talgo LLP, KHOZU Stroyinvest Limited LLP. The contest was held in the following nominations: Robot welding, Shielded metal arc welding (111 / the SMAW), Gas metal arc welding (135 / GMAW), Gas tungsten arc welding (141 / GTAW), Oxygen fuel gas welding (311 / OFW), Finished product welding (111 / SMAW / 135GMAW / 141 GTAW / FCAW 136), Welding performance.

The Kazakhstan team of welders won the 2nd place at the Beijing "Arc Cup" International Welding Competition", which was held on June 18-22, 2016 in Beijing (China). 300 welders from more than 25

*Participation of Kazakhstan delegation at the 4<sup>th</sup> Beijing International Welding Competition "Arc Cup"*

*VI Annual Meeting of Kazakhstan Welding Association KazWeld*

*Certification of Welder according to EWF Scheme: JSC "Kantau Transformer Plant" and "Electrovoz Kurastyru Zauyty" LLP*

*New Approved Training Body – Higher Technical School Apec Petrotechnic*

*Education, examination and qualification of welding personnel: Kazakhstan Welding Institute – IWE 2016; Professional Training Center – IW 2016*

*About Kazweld activities*

**Project: Robot Welding**



**Project: Shielded Metal Arc Welding (111/SMAW)**

Mr. Andrey Makhorin, the welder of KazTransOil JSC, took participation in this project



The work of Mr. Andrey Makhorin in the project “Weld Art”

**Project: Gas Metal Arc Welding (135/GMAW)**

Mr. Vladimir Shvarts, the welder of Tulpar-Talgo LLP, participated in this project. In addition, he took participation in the Project «Aluminum Alloy Welding Performance».



The work of Mr. Vladimir Shvarts in the project “Weld Art”



**Project: Gas Tungsten Arc Welding (141/GTAW)**

Mr. Murat Mustafayev, the welder of KHOZU StroyInvest Limited LLP, took participation in these two projects. In addition, he participated in the Project “Stainless steel Welding Performance”.

**Project: Finished Product Welding (111/SMAW/135GMAW /141 GTAW/136 FCAW)**



**Project: Oxygen Fuel Gas Welding (311/OFW)**

Mr. Mikhail Gofman, the welder of Tulpar-Talgo LLP, participated in this project. In addition, he took participation in the Project «Aluminum Alloy Welding Performance».



The work of Mr. Mikhail Gofman in the project “Weld Art”



The competition concurred with 2016 (2nd) International Conference on MANUTECH & SKILLS and 2016 MANUTECH & SKILLS Demonstration Show. The conference discussed on the topics about the latest theories and practices, such as advanced manufacturing technologies, techniques, equipment, materials, and talents (training and identification). The representatives from different welding societies took participation in the conference: American Welding Society (AWS), Belorussian Welding Society (BWS), Bulgarian Welding Society (BWS), German Welding Society, International Welding & Surfacing Association (IWSA), Korea Welding Industry Cooperative (KWIC), Mongolian Material Science & Welding Society (MMSWS), Shipbuilding Institute of Polytechnic Surabaya – Indonesia (SHIPS), Singapore Welding Society (SWS), Ukrainian Welding Society (UWS) and Kazakhstan Welding Association (Kazweld).

Meanwhile, the demonstration show covered machine tool and metal processing, precision casting, welding and cutting, mould, surface and after treatment, industrial automation and power transmission, industrial automation and power transmission, industrial Internet and electronic industry, industry environmental protection and equipment, hardware protection, logistics and transportation, 3D print technology and rapid prototyping, and construction machinery and special vehicle.



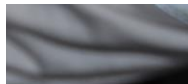




Kazakhstani Judge: Mr. Kurban Assubayev, Vice-president of Montazhspetsstroy JSC



Competition site





## VI KazWeld Annual Meeting

On May 27, 2016 the VI Annual Meeting was held by the Kazakhstan Welding Association KazWeld to announce the results of its activities for the past five years. Within those years the association has achieved excellent results, expanding its activities significantly on the training of specialists in the field of welding with the issuance of the international diplomas, carrying out the certification of welding personnel and manufacturing companies with the issuance of European and international certificates etc. Experts of the International Institute of Welding noted that Kazakhstan has made significant progress within the short period of time, far exceeding the expectations of the world community. This was made possible not only thanks to the active work of the Association and its members, but also the support of the President Administration and the Government of the Republic of Kazakhstan, as well as the strategic partner - the company TOTAL E & P Kazakhstan. At the end of the meeting all members were presented with KazWeld commemorative medals.



### PUBLICATION IN THE JOURNAL

#### “WELDING IN THE WORLD”

If you wish to publish your papers in the International journal, then you can do it in IIW journal “Welding in the World”.

The journal “Welding in the World” publishes authoritative papers on every aspect of materials joining, including welding, brazing, soldering, cutting, thermal spraying and allied joining and fabrication techniques.

Coverage spans a wide range of topics, including advances in joining processes; metallurgical and materials interactions associated with joining; engineering properties and assessment of joints; health and safety and environmental aspects of joining; industrial applications; performance of welded structure in service; testing of welds; quality assessment and education, training, qualification and certification.

#### There are two ways to publish:

1. Submit a manuscript to a Chair of a Commission at the Annual Assembly  
<http://www.iiwelding.org/WorkingUnits/Pages/Default.aspx>

The submitted manuscripts will be presented during a meeting and receive feedback from specialists.

2. Submit a manuscript as “Open Submission” using the Springer Editorial Manager. The registration and the submission are allowed following the link  
<http://www.editorialmanager.com/witw/default.asp>

The manuscript will be forwarded to the Chair of the selected Commission and he will approve or reject the manuscript before the peer-review.



**IIW 2016**  
 10-15th JULY 2016

MELBOURNE | AUSTRALIA

**69th IIW ANNUAL ASSEMBLY AND INTERNATIONAL CONFERENCE**

## Certification of welders according to scheme of European Welding Federation

### Kentau Transformer Plant JSC

In April 2016 KazWeld carried out the certification of welders and welding operators of JSC "Kentau Transformer Plant" (Kentau city) according to EN 287-1, EN ISO 9606-2 and EN ISO 9606-3.

JSC "Kentau Transformer Plant" is a Kazakhstani manufacturer of wide application transformer equipment, supplying to all sectors of the economy, including electric power, metallurgy, machinery, transportation, oil and gas complex, housing sector. The plant is the part of the «Alageum Electric» holding company. This year it marks 57 years since its foundation. The list of products of the plant is more than 370 items that are in demand both on the local market and foreign one.



### Electric Locomotive Assembly Factory - Electrovoz Kurastyru Zauyty LLP

In May 2016 the Kazakhstan Welding Association carried out certification of welders of the "Electrovoz Kurastyru Zauyty" LLP (Astana city) according to standard EN 287-1.

The EKZ is a company that produces the freight and passenger locomotives according to the technology of Alstom Transport company. Alstom is the large French company that manufactures power generating and power distribution equipment, railway equipment and streetcars.

The purpose of the EKZ is renewing of the rolling traction stock in Kazakhstan as well as exporting its products to the CIS countries. Currently, on the railways of Kazakhstan the 31 freight locomotives KZ8A have already operated. Freight locomotive can reach speeds of up to 120 km / h and is one of the most powerful electric locomotives in the world. Also, the 6 passenger locomotives KZ4AT commercially launched. This locomotive is capable of speeds up to 200 km / h.





## New Approved Training Body – Higher Technical School APEC Petrotechnic, Atyrau city

In April 2016 the Higher Technical School Apec Petrotechnic went through the audit for obtaining the status of IIW Approved Training Body.

On May 17, 2016 APEC Petrotechnic was awarded the certificate of Approved Training Body. Now, the training center has the right to train the welders of three levels (International Fillet Welder, International Plate Welder and International Tube Welder) according to the program of the International Institute of Welding.

APEC Petrotechnic is the first unique project, which is the part of developing network of world-class colleges in Kazakhstan, created based on the instructions of the Head of State - Nursultan Nazarbayev. The non-profit joint-stock company "Holding" Kәсіпқор " is in charge of development and improvement of the world-class colleges network. It was created in July 2011 by the Government of the Republic of Kazakhstan to implement the orders of the President of the Republic of Kazakhstan.



## Education, examination and qualification of welding personnel

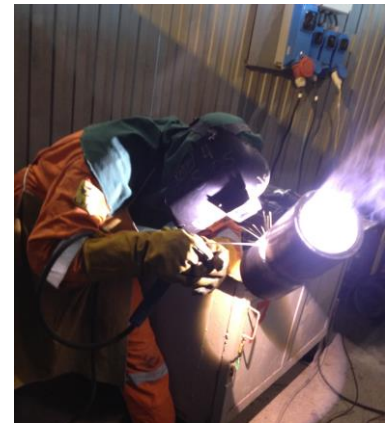
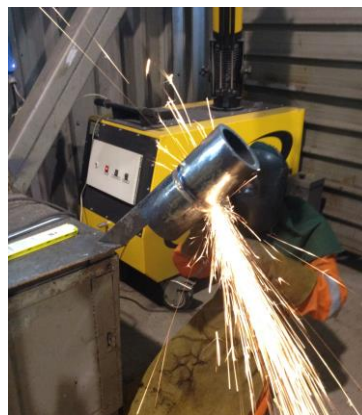
### Kazakhstan Welding Institute (Karaganda), International Welding Engineers - 2016

In April 2016 the training course "International Welding Engineer" has begun at the Kazakhstan Welding Institute (Karaganda city). There are 12 students this year. In May the spring semester was completed. The students attended and passed the examination in two modules. In October - November, the fall semester will start. After successful completion, students will receive IIW diplomas «International Welding Engineer».



### Professional Training Center, Kuryk Village (Aktau)

Currently, the 14 students have training on the IIW program "International Tube Welder" at the Professional Training Center (Kuryk Village, Aktau). At the end of July the theoretical and practical exams are going to be held with the subsequent issuance of the IIW diplomas to successful candidates.





## Certification of welding production and welding personnel is an effective way to improve the competitiveness of manufacturing companies

In connection with the entry of the Republic of Kazakhstan to the WTO and creation of the Eurasian Union, the customs regulations is changed, competition level between manufacturing companies is increased. In these circumstances, the certification of manufacturing companies and their staff becomes the important issue to ensure sustainable development. This is important at the stage of receiving the order for the manufacture of a product, especially when the conditions of the tender prescribed special terms, including the presence of international certification.

International certification of welding production and welding personnel can be obtained by using the services of various certification bodies including the Kazakhstan Welding Association "KazWeld".

### IIW Manufacture Certification Scheme according to ISO 3834

Nowadays the system of international certification of welding production complying with ISO 3834 are widely used in many developed countries. The ISO 3834 specifies the requirements for a quality performance of fusion welding of metallic materials, including the requirements for welding personnel, welding inspectors, equipment, welding and related activities, welding materials, storage of basic materials, heat treatment after welding, inspection and tests, discrepancies and corrective actions; calibration and validation of measuring, testing and control of equipment; identification and traceability; reports and quality.

Validity period of certificate is 5 years.



### Certification of welders, welding operators and brazers under the European Welding Federation Scheme in accordance with EN 287, ISO 9606, ASME BPV Section IX, AWS D 1.1, EN 1418, EN 13133, EN 13067 и т.д.

This Certification Scheme provides a way to assess and recognize job competence for the welder. It defines the profile of skill, supplemented by required theoretical knowledge with respect to a range of welding activities and provides a professional assessment procedure following the relevant standards. Certification is concerned with current competence rather than historical attainment and periodic renewal as per the applicable standard or code required. In all cases, welders qualification shall be evaluated in a professional way, by competent personnel, operating in a professional, independent and strictly neutral environment. Such an environment is adequately assured by the EWF rules.

Validity period of certificate is 2 years.



### IIW Certification Scheme for Welding Inspectors:

- Certified Welding Inspector – Comprehensive Level (CWI-C)
- Certified Welding Inspector – Standard Level (CWI-S)
- Certified Welding Inspector – Basic Level (CWI-B)

Validity period of certificate is 3 years.

Срок действительности сертификата – 3 года.





**IIW Certification Scheme for Welding Personnel according to ISO 14731**

- Certified International Welding Engineer (CIWE)
- Certified International Welding Technologist (CIWT)
- Certified International Welding Specialist (CIWS)
- Certified International Welding Practitioner (CIWP)

Validity period of certificate is 3 years.



**Education, examination and qualification of welding personnel**

KazWeld’s Approved Training Bodies are in charge of education of welding personnel according to requirements of International Institute of Welding. After successful graduation the students get the IIW Diplomas:

1. International Welding Engineer (IWE)
2. International Welding Technologist (IWT)
3. International Welding Specialist (IWS)
4. International Welding Practitioner (IWP)
5. International Welder
  - a. International Fillet Welder (IFW)
  - b. International Plate Welder (IPW)
  - c. International Tube Welder (ITW)
6. International Welding Inspector
  - a. Basic level (IWI-B)
  - b. Standard level (IWI-S)
  - c. Comprehensive level (IWI-C)

Training courses duration is between 1.5 and 3 months. Candidates should have technical education (for engineers, technologists and technicians) or secondary education (for workers and instructors in welding) and working experience of at least 3 years.

Validity period of certificate is Unlimited.



**Accreditation of training centers**

If companies, organizations, businesses have a valid training center, the Association of welding «KazWeld» can assist in its accreditation according to international standards as well as provide IIW training programs in welding, educational materials, international standards for welding and international standards for training.

After successful approval, the training center get the right to carry out the educational services according to programs of International Institute of Welding.

Validity period of certificate is 5 years.

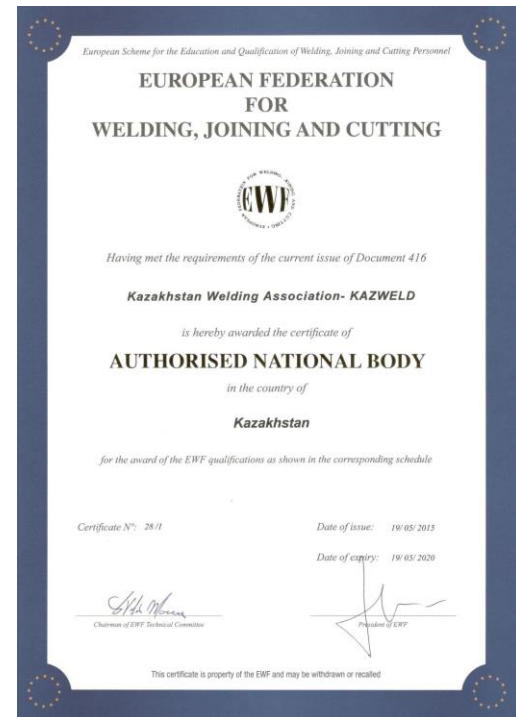




**Kazakhstan Welding Association “KazWeld”** is the IIW/EFW Authorized National Body to carry out the all above services on the territory of the Republic of Kazakhstan.

KazWeld runs its activities according to requirements and guidelines of International Institute of Welding (IIW) as well as European Federation for Welding, Joining and Cutting (EFW).

Certificates and diplomas issued by the Kazakhstan Welding Association are recognized in 59 countries-members of the International Institute of Welding, including the USA, UK, Canada, France, Germany, Italy, Spain, Portugal, Japan, China, India, Australia, New Zealand, Malaysia, Singapore, Brazil, South Africa, Turkey, Ukraine, Russia, etc., as well as in 32 countries-members of the European Welding Federation.



Certification of welding production according to ISO 3834 provides a competitive advantage to companies, accounted by competitive tender commission, increase the credibility and visibility of manufacturing companies. The list of companies that have passed certification successfully placed on the global website [www.efw.be/certified-companies](http://www.efw.be/certified-companies).

Getting diplomas and certificates of the International Institute of Welding makes it possible to work in foreign and domestic companies which set increased requirements for the engineering staff and workers - welders. Lists of Graduated and Certified welding personnel are placed on site [www.kazweld.kz](http://www.kazweld.kz)

Сварке принадлежит  
великое будущее.

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## BENEFITS OF KAZWELD MEMBERSHIP

Kazakhstan Welding Association «KazWeld» invites you for cooperation and collaboration in improving the welding production in the Republic of Kazakhstan, development of human capital, development and modernization of professional education system, introduction of innovative teaching methods, implementation of the state program for accelerated industrial and innovative development of Kazakhstan in terms of technical regulation and creation of quality infrastructure, introduction of advanced technological processes of welding equipment and welding materials.

### **As a KazWeld member, you hereby:**

1. Assist in implementation of the order of the President of State and Government of the Republic of Kazakhstan to promote Kazakhstan Welding Project.
2. Support the policy of the State in:
  - increasing the local content in the economy of the Republic of Kazakhstan;
  - improving the quality and competitiveness of welding products;
  - improving the employment prospects;
  - improving the technical literacy of citizens of Kazakhstan;
  - accelerating the industrial and innovative development of the Republic of Kazakhstan;
  - implementing the strategy "Kazakhstan's way - 2050" for becoming one of the 30 developed countries in the world;
  - improving and introducing the innovative teaching methods.
3. Become a member of the International welding society
4. Get the priority:
  - to be promoted in the international exhibitions, conferences, mass media etc.
  - to get discounts on KazWeld services, for example, company certification, certification of welding personnel and so on;
  - to send your workers for training to any of the approved training bodies across the country;
  - to apply for hiring the graduates of any approved training bodies ;
  - to give suggestions for the formation of the plans and activities of the welding association;
  - to participate in the management of the association;
  - to make suggestions in the training programs in terms of their expansion and in-depth study of relevant topics.
5. Be informed on the latest global welding technology and "know-how".



Астана күнімен шын жүректен құттықтаймыз!

С Днем Столицы Астаны!

Happy Astana Day!

## Newsletter

Issue #6

June 29, 2016

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### Planning activities:

- Manufacturer certification
- Certification of welding personnel
- Accreditation of training centers
- Standards development
- Participation in forums and conferences



**KAZWELD**

КАЗАХСТАНСКАЯ АССОЦИАЦИЯ СВАРКИ