



KAZAKSTAN WELDING ASSOCIATION «KAZWELD»

IIW 2015 68th Annual Assembly - Record amount of welding professionals were gathered in Helsinki (Finland)



The most significant welding event in the world ended 3rd of July 2015 in Helsinki. Totally 885 people from 54 countries around the world attended the 68th IIW Annual Assembly and International Conference.

The IIW Annual Assembly and International Conference are arranged once a year in one of the member countries of the organization. This time Finland had the honor to host one of the biggest Annual Assemblies ever. Participants came widely from almost all the 57 member countries. Up to 96 Finnish delegates attended the event. Most participants from other countries came from Germany (115), Japan (98) and South Korea (50). Two Kazakhstani delegates, KazWeld Executive Director Mr. Rustambek Abdurakhmanov and Director of Kazakhstan Welding Institute Mr. Igor Bartenev, also took participation in the events.

The Welding Society of Finland (WSF) was responsible for the event's arrangements on the 28th of June - 3rd of July 2015.

The event included a variety of committee meetings, workshops,

Newsletter



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presentations of new welding research findings and social events.

At the session of the Working Group C-II-C "Testing and measuring welds" Kazakhstan presented the article **"The effect of gas shielding composition on structure transformation and service properties of Cr-Ni-Si steel by MIG/MAG surfacing"**. At present article under peer-reviewing. With positive feedback, it will be published in the IIW Journal "Welding in the World".

Next summer to Australia

The Annual Assemblies provide a great opportunity to bring together experts in various fields of welding. There are researchers, professors and industry representatives, but also students in the meetings. Next year all delegates will travel to Australia where the IIW's Annual Assembly is scheduled in Melbourne from 10 to 15 July. Australians warmly welcome all of the welding professionals and their families.



Dear Kazakhstani professionals and specialists in welding production,

We would like to invite you to participate at the 69th IIW Annual Assembly and International conference, which will be held in Melbourne (Australia) from 10th to 15th of July 2016.

This is a good opportunities for you to meet the representatives of global welding society, to establish business contacts, update your knowledge with latest information in welding, to share knowledge and experience and so on. Within those days, you will have a chance to participate in the meetings of the IIW/IAB working groups and International conference.

Please let us know on your participation by June 15, 2016 to put you to the list of Kazakhstan delegation.

Note: participant or his /her employer should pay all expenses on transportation, accommodation, registration and so on.

For more detailed information please visit www.iiw2016.com

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

KazWeld got full authorization for certification of welding inspectors

Safety and profit depends on technical control of welding operations. Key staff in welding related activities needs to have an appropriate level of competence in welding technology and its application. In addition to employing competent welders, manufacturers should ensure that engineers, technicians, inspectors who deal with welding matters have proven relevant competence.

On September 25, 2015 KazWeld got full authorization for implementation of IIW SCHEME FOR CERTIFICATION OF WELDING INSPECTOR. From now on, anyone can get this certificate in Kazakhstan without going abroad. Certified persons are awarded one of the following titles according to the level of qualification and job activity:

IIW Qualification Required	Certification Title
International Welding Inspector - Comprehensive (IWI-C)	Certified Welding Inspector - Comprehensive (CWI-C)
International Welding Inspector - Standard (IWI-S)	Certified Welding Inspector - Standard (CWI-S)
International Welding Inspector - Basic (IWI-B)	Certified Welding Inspector - Basic (CWI-B)

Requirements to achieve the welding inspector certification:

1. Demonstration of knowledge and skills (IIW diploma holder)
2. An applicant must have a minimum of two years' experience in the three-year period prior to certification, which demonstrate successful application of knowledge and skill in welding inspection at the appropriate level.
3. A applicant and existing certified persons are required to demonstrate that they are maintaining and updating their knowledge relevant to the area in which he practice for example by implementing a personnel scheme for professional development.

The certificate have a validity of three years from the date of the decision on certification; at the expiration a renewal procedure has to be followed in order to renew and retain certified status. At the three-year renewal point, the holder is required to apply for certification renewal to Kazakhstan Welding Association "KazWeld".

For more detailed information [on certification and getting the certificate](#), please feel free to contact Kazakhstan Welding Association KazWeld.



Note: For more information [on qualification and getting the IIW Diploma](#), please contact
Nondestructive Testing
Certification Center (Karaganda).

Certification of welders according to scheme of European Welding Federation

KHOZU «StroyInvest Limited»

In October 2015 Kazweld carried out the certification of welders of KHOZU "StroyInvest Limited" according to standard ISO 9606. Welders work at Shardara hydroelectric power station. Shardara hydroelectric station is one of the most powerful stations in the south of country. It is currently undergoing an ambitious modernization that is planned to finish in 2017. The project cost is estimated at 29.8 billion tenge. The international tender was won by a German company Andritz Hydro GmbH. Workers are already dismantled outdated equipment; all four hydraulic units will be replaced with new ones. After that hydroelectric station's power will be increased significantly by 26%, which help considerably to meet the demand for electricity in the southern regions of the country.



CERTIFICATION OF WELDERS, WELDING OPERATORS AND BRAZERS IN ACCORDANCE WITH EUROPEAN FEDERATION FOR WELDING, JOINING AND CUTTING (EWF) SCHEME CAN BE DONE NOW IN KAZAKHSTAN

Kazakhstan Welding Association KazWeld is an Authorized National Body for certification of welders, welding operators and brazers according to European Welding Federation scheme: EN 287, ISO 9606, ASME BPV SECTION IX, AWS D 1.1, EN 1418, EN 13133, EN 13067 and so on.

The ability of a welder to follow verbal or written instructions and verification of a person's skills are important factors in ensuring the quality of the welded product.



Tulpar - Talgo LLP

In November 2015 Kazweld carried out the certification of welders and welding operator according to the standard ISO 9606-2 and ISO 14732 respectively in Tulpar-Talgo LLP. The procedure of certification is carried out strictly according to the document of the European Welding Federation - Doc. EWF 647 "EWF Scheme for certification of welders, welding operators and brazers". The standard ISO 3834 "Quality requirements for fusion welding of metallic materials" requires adequately qualified welders throughout all defined quality requirements.

Adequate qualification is provided by adopting the scheme as it is specified in Doc EWF 647. 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.

Tulpar-Talgo is the Kazakhstan-Spanish plant for the production of railway passenger carriages. The company's purpose is not only to meet the needs of Kazakhstan market, but also to export their products to the CIS countries and far abroad.



Education, examination and qualification of welding personnel

Kazakhstan Welding Institute (Karaganda), International Welding Engineers - 2015



On November 20, 2015 the IIW training course "International Welding Engineer" was completed. Students successfully finished the training, passed exams in four modules. Thirteen Kazakhstani welding engineers who are representing different regions of Kazakhstan, different businesses and organizations have got the qualification "International Welding Engineer, IWE» and received diplomas of the International Institute of Welding.

Ceremonial awarding of diplomas was held on November 20, 2015. Theoretical knowledge and practical skills acquired during the course help Kazakhstani specialists to raise their professional level of qualification.

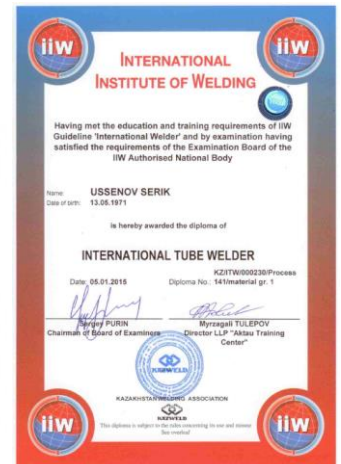
Full authorization on education of International Welding Technologist (IWT)

On November 27, 2015 KazWeld received full authorization on education and issuance of the IIW International Welding Technologist (IWT) Diploma in accordance with the Doc. IAB 252 "Minimum requirements for education, examination and qualification". From now on, anyone can get a diploma "International Welding Technologist" in Kazakhstan, having unlimited validity.

The course "International Welding Technologist" is conducted by two training centers in Kazakhstan:

1. Kazakhstan Welding Institute, Karaganda
2. Nondestructive Testing Certification Center, Karaganda

IWT Diploma holder may in the future be certified by Kazakhstan Welding Association "Kazweld" and obtain the IIW certificate "Certified International Welding Technologist" (CIWT). The validity of the certificate is 3 years.



Surveillance audit at the Kazakhstan Welding Institute (Karaganda)

On November 18, 2015 Kazweld hold the surveillance audit at its authorized training body, Kazakhstan Welding Institute. Some observations and minor non-conformities as well as recommendations for further improvement of the training center were made.

According to the IIW procedures, KazWeld should carry out the surveillance audit of its Authorized Training Bodies (ATBs) every two years (KWAC 001, paragraph 4) in order to monitor and control their activities with compliance with established procedures.

The Forum became a dialogue platform at the international level, where representatives of international organizations from different European and Asian countries discussed the most important issues on qualified personnel for Kazakhstani economy.

Participants shared experience of effective cooperation between industries and educational institutions, discussed the implementation of the dual training system, the development of modular programs and certification. In the framework of the event, the exhibition became a traditional part of the Forum. Educational institutions and companies presented their latest developments of innovative equipment.

The ceremony of awarding the best partners - employers in the system of

technical and vocational education, veterans of technical and vocational education of Kazakhstan for their contribution in training of qualified personnel, as well as young professionals who participated this year in the international competition World Skills in Sao Paulo was held.

XVI Republican scientific & technical conference "Welding and quality control"

On December 3-4, 2015 the XVI Republican scientific & technical conference "Welding and quality control" took place. The conference was organized by the Karaganda State Technical University and Kazakhstan Welding Institute. The conference dealt with issues on the theory and practice of welding and non-destructive testing, as

well as training of welding personnel. KazWeld presented the scientific report as well as the report on the activities of the association.

Dissertation Council Meeting

On December 11th, 2015 the Dissertation Council meeting was held at Kazakhstan State Technical University. Student from the department "Nanotechnology and Metallurgy" successfully defended his thesis on "Research and development of production technology of metal nanostructures and high mechanical properties in the rolling rolls in a reverse taper" to get the PhD degree.

Calendar on coming welding events in 2016

Date	Event	Country	Information
2-5 February	XI specialized exhibition of metalworking and welding	Krasnoyarsk, RUSSIA	Ekaterina Senderskaya т/ф. +7 391 22-88-513 www.krasfair.ru http://centersiberia.ru
20-21 April	10th International Conference "Beam Technology"	Halle (Saale), GERMANY	Erika Biedermann/Ramona Jager Tel.: +49 345 5246-418/-551 E-mail: conferences@slv-halle.de www.beamtec-conf.com
22-23 April	6th IIW Welding Research and Collaboration Colloquium	Hyderabad, INDIA	SG-RES, Indian Institute of Welding http://www.iiwindia.com/
3-6 May	Belarusian Industrial Forum	Minsk, BELORUSSIA	Alexander Nicolaevich Tel.: +375 17 3143438 Email: global@expoforum.by www.expoforum.by
10-12 May	2016 International Thermal Spray Conference and Exposition	Shanghai, P.R. China	www.dvs-ev.de/itsc2016
11-12 May	4th European Conference "Join-Trans 2016" Joining and Construction of Railway Vehicles	Halle (Saale), GERMANY	Erika Biedermann Tel.: +49 345-5246-418 Fax: +49 345-5246-412 Email: conferences@slv-halle.de
11-13 May	X Kazakhstan International Industrial Exhibition "Mechanical Engineering and Metalworking - 2016"	Almaty, KAZAKHSTAN	Kayrat Imangaliev Tel.: +7-727-2747926, 2750911 Fax: +7-727-2750838 Email: PowerKazindustry@mail.ru
17-20 May	17 th International Exhibition «Сварка/Welding – 2016»	Saint-Petersburg, RUSSIA	www.welding.expoforum.ru
31 May – 3 June	IX International scientific and technical conference "Arc welding. Materials and quality "	Volgograd, RUSSIA	http://association-electrode.com/rus/9konf
18-23 June	2nd International Conference on MANUTECH & SKILLS and 2016 MANUTECH & SKILLS Demonstration Show	Beijing, CHINA	www.arciwc.com
13-15 September	ESOPÉ 2016-European Symposium on Pressure Equipments	Paris, FRANCE	http://www.esope-paris.com/?lang=en

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.



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 Weder (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 approvement, the training center get the right to carry out the educational services according to programs of International Institute of Welding.

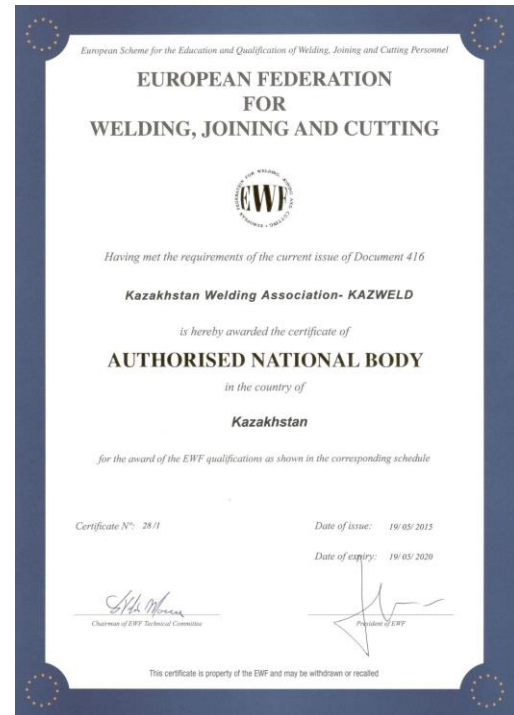
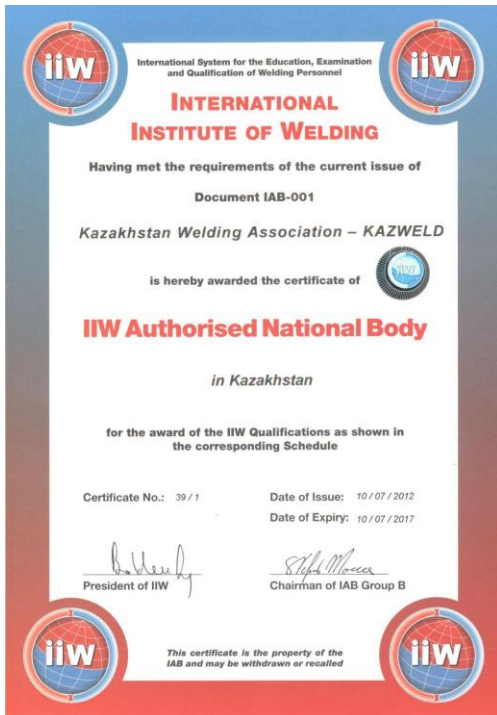
Validity period of certificate is 5 years.



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.

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

Сварке принадлежит великое будущее.

Е. О. Патон

Казахстанская Ассоциация Сварки

KazWeld

+7 (7172) 26 98 78

info@kazweld.kz

www.kazweld.kz

The International Welding Inspector (Comprehensive level, IWI-C) application is now available!

Attestation Center for Nondestructive Testing (ACNDT) is now accepting applications for International Welding Inspector program - Comprehensive level (97 hours).

Comprehensive level of the International Welding Inspector is designed primarily for supervisors in welding quality and welding inspectors. Other levels are for personnel who are in charge of welding quality.

After successful graduation, the candidate will get IIW IWI-C Diploma.

Training course date: January 18 – February 5, 2016

Requirements for admission to the comprehensive level:

1. IWE or IWT Diploma holder as well as working experience in welding inspection for at least 3 years.

Or

2. Bachelor diploma in Engineering or associate's degree welding or allied processes issued by the vocational school, technical college or vocational school (under the old system of education), as well as working experience as a welding inspector for the least 3 years. Candidate should pass the entrance exam to have an access to this course.

After studying each module the exams are carried out. Only those students who attend not less than 90% of the classes are allowed passing the exams. Students who pass the exams successfully will be awarded the IIW diplomas.

Documents for submission:

1. A completed and signed application form KWAC/FD 009 with a photo
2. Resume
3. A copy of the identity card
4. Copies of diplomas and certificates in welding
5. Documents confirming work experience in welding
6. Signed form KWB/FD 001

Note: to get the forms KWAC/FD 009 and KWB/FD 001, please contact info@kazweld.kz

Please send your documents by e-mail: aznk-weld@mail.ru, brodnikov55@mail.ru

or to the following address: 100017, Karaganda, Tulepov st., 14, ACNT , 219, 410, for Vladislav Mikhailovich Brodnikov

Help by phone:

ACNDT: +7 (7212) 97 04 15 / 33 56 06 / 50 56 63

The International Welding Engineer (IWE), Technologist (IWT) and Specialist (IWS) application is now available!

Kazakhstan Welding Institute accept the application for the following qualifications:

1. International Welding Engineer (IWE) – 450 hours
2. International Welding Technologist (IWT) – 360 hours
3. International Welding Specialist (IWS) – 240 hours

After successful graduation, the candidate will get Diploma of International Institute of Welding.

Access conditions:

IWE: The presence of an engineering degree diploma (issued up to 2008) or a master's degree (bachelor's degree) in technical sciences (at least 3 years of studying of engineering disciplines in welding or allied processes), as well as working experience in welding engineering positions for at least 3 years for the last years.

IWT: Post-Secondary Vocational School Diploma of Junior Specialist (Technician) from a Technical College (or Technikum in previous education system) in the field of Mechanics, Metallurgy or Electro technology as well as working experience in welding technologist positions for at least 3 years for the last years.

IWS:

OPTION 1: Secondary Vocational School Diploma of Junior Specialist in the field of Mechanics, Metallurgy or Electro-technology as well as working experience in welding or metal working for at least 2 years for the last years.

Option 2: High School education and 3 years of working experience in welding or metal working

Programs are designed for 2 terms: Spring term (April-May) and Fall term (October-November). The program consists of 4 modules, two modules in each semester. After studying each module the exams are carried out. Only those students who attend not less than 90% of the classes are allowed passing the exams. Students who pass the exams successfully will be awarded the IIW diplomas.

Spring term will start on April 4, 2016; Fall term - October 3, 2016.

Documents for submission:

1. A completed and signed application form KWAC/FD 009 with a photo
2. Resume
3. A copy of the identity card
4. Copies of diplomas and certificates in welding
5. Documents confirming work experience in welding
6. Signed form KWB/FD 001

Note: to get the forms KWAC/FD 009 and KWB/FD 001, please contact info@kazweld.kz

Please send your documents by e-mail: igor_svar@mail.ru или info@kazweld.kz

or to the following address: 100027, Kazakhstan, Karaganda, Boulevard of Peace 56, KSTU, main building, room 304, Department of "Technology and equipment for welding production", Igor Bartenev

Deadline for document submission: **March 15, 2016**

Help by phone: Kazakhstan Welding Institute

Tel. 8-7212- 56-75-98 ext. 1084

Mob. 8-701-34-131-34 (Igor Bartenev)

E-mail: igor_svar@mail.ru (Igor Bartenev)

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".



Dear friends, colleagues and members of the Kazakhstan Welding Association!

Merry Christmas and Happy New Year!

May this season bring abundant joy and happiness for you and your family!

Thank you very much to be with us in the past years and look forward to fruitful cooperation in the New 2016 Year!

Best wishes,

Kazakhstan Welding Association «KazWeld»



Newsletter

Issue #5

December 21, 2015

Astana, Imanbaeva st., 7B
Tel.: +7 7172 26 98 78
+7 701 538 56 52
Email: info@kazweld.kz
URL: www.kazweld.kz

Planning activities:

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



KAZWELD

КАЗАХСТАНСКАЯ АССОЦИАЦИЯ СВАРКИ