Year 20

QualCert NEWSLETTER

ISSUE 28

News & Information about the Qualification & Certification System

In this issue

Learning how to weld.

EDITORIAL

QUALCERT is the brand for reliable qualification and certification in welding technology.

Qualcert is the system for qualification and certification of welding personnel and companies operated by the international recognised organisations in the field of welding technology - International Institute of Welding and European Welding Federation.

This system has been implemented in 37 countries around the world in all 5 continents. There are other 6 countries in the process of implementing the system.

Qualcert will issue a regular Newsletter aimed at informing the members of EWF and IIW about the developments achieved in the implementation of the brand. Its contents can be used for promotion in the potential markets as appropriate.

Very recently this system has been adopted in three more countries: Turkey, Indonesia and People's Republic of China. The present Newsletter features the organisations responsible for this achievement:

- *Turkish Welding Technology Academy – TWTA;*
- *Indonesian Welding Society – IWS*
- *Chinese Authorised National Body for Company Certification – CANBCC.*

Turkey and Indonesia implemented the system for qualification of personnel while People's Republic of China, where this was done 10 years ago, has been active in extending its activities to the certification of companies.

Qualcert has seen its scope extended with the approval of the European system for certification of welders through which professionals can be awarded a certificate complying with EN 287 and other welder approval standards or codes such as ASME IX, ISO 9606, EN 1418, etc. The EWF certificates will be instantaneously associated with welders with high skills and assured performance by all the industry using welding.

The Qualcert framework system is supported by a comprehensive number of documents: guidelines for qualification and certification of personnel and companies and rules for implementing the system, which are periodically developed and reviewed by the EWF and IAB/IIW members. An updated list of this documentation is outlined.

QualCert: *Excellence in Qualification and Certification in Welding Technology!*

Italo Fernandes
Systems Manager

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NEWS

EWF on Facebook!

We are glad to announce that EWF is now present on Facebook. You can check out all the lastest information at: *www.facebook.com/europeanweldingfederation*

Renewal of the EWF Board 2011-2013

President: D. Dehelean
Past President: T. Jessop
Vice President: M. Uran
Directors: L. Coutinho, M. Rousseau, S. Morra, C. Eady
Treasurer: K. Middeldorf
www.ewf.be

EVENTS

1st IIW European-South American School of Welding and Correlated Processes

18 to 20 May 2011
Brazil
www.weldingschool2011.org

EWF Meetings in Basel

6 & 7 June 2011
Basel, Switzerland
www.ewf.be

64th IIW Annual Assembly & International Conference

17 to 22 July 2011
Chennai, INDIA
www.iiw2011.com

ADVANCES IN WELDING SCIENCE AND TECHNOLOGY for Construction, Energy and Transportation Systems

21-22 October 2011
Antalya, Turkey
www.awst2011.com

ANB TURKEY

Turkish Welding Technology Academy (TKTA)

Gedik Education and Social Benefits Foundation (GEV) has constructed and donated numerous education facilities to the government with the purpose of contribution to Turkish education system and Turkey's welding technology since 1994.

As an exemplar model for Industry – University cooperation and with the importance of applied education, GEV established Gedik Vocational High School in 2010 predominantly with technical programs (Welding Technology, Non Destructive Testing (NDT), Mechatronics, Metallurgy etc.) and also social programs (Foreign Trade, Public Relations, Banking and Insurance etc.). The mission of gaining young people, who have vocational knowledge and skills that meet international standards in the areas where they are needed mostly in Turkey has taken GEV to a further step and all the intensive preparatory work for the establishment of Gedik University that has been officially endorsed by Turkish Parliament on 17.02.2011.

In order to strengthen Turkey's worldwide relations within the scopes of education, research and development at every platform and at each level GEV considered the importance of the membership of International Institute of Welding (IIW) and European Welding Federation (EWF). GEV became Turkey's responsible member of IIW in 2008 and EWF in 2009. The Welding Technologies and Non-destructive Testing Research-Application Center at the Middle-East Technical University (METU) is also member of IIW and today studies of both institution are being carried out in joint-cooperation under the coordination of GEV's responsible membership.

Turkish Welding Technology Academy (TKTA which is open to all institutions and corporation that are involved in welding, has been established under GEV, to ensure functionality of all kinds o educational, scientific and technical activities of al institutions/corporations at each level of Turkish Welding Sector within the scope of country benefit and IIW/EWF standards, and to form a structure tha has the capacity to spread the practices all aroun the country.

TKTA has formally applied to become Turkish ANB (TR-ANB) in 2009. After fulfilling documenta assessments and after the preliminary visit in February 2010, the Initial Audit has been arranged in July 2010. Finally and successfully, TR-ANB go the full authorization for E/IWE, E/IWT, E/IWS and Preliminary Authorization for IWIP, IWSD, IWP and IW during IAB 2011 January meetings. Documenta review for TR-ANBCC is still in progress.

This will allow TKTA to offer an internationa harmonized qualification of personnel in the weldin field and in a near future certification of companie according to ISO 3834 and thus meeting the need of the market.

Tuba Karahan
ANB Chief Executiv

ANB INDONESIA

Indonesian Welding Society – IWS – ANB

Although Indonesian Welding Society (IWS) has been established since 1994 and became a member of the IIW in 1997, but it was the industries who initiated the formation of Indonesian Authorized National Body (later on called as IWS – ANB).

Indonesia experienced a rapid growth in various industrial sectors, including palm oil, coal, oil and gas, mining and construction which in turn have led to a booming industry in offshore construction and shipbuilding. Industries require welding personnel with various skills and levels, who are capable to work in an international environment. It seems that the demand outstrips by far the supply; and the shortage of welding personnel becomes the bottleneck in the operation.

In the past, low level welding quality has brought the industries into a critical situation. Problems such as high repair rate and cracks, has resulted in unplanned shutdown, high cost and delays in project completion. Lack of personnel competency is a root cause of these problems, particularly the weakness of the education system which was not integrated and not oriented to the industrial needs. This raise of industry awareness of the importance of qualified and competent welding personnel and the high expectation was addressed to IWS – ANB, as the principal solution. The industries see the importance of an ANB, through which qualified and competent welding personnel is produced in an effective and efficient manner.

With the support of government, industries, national welding association and certainly IIW, we IWS – ANB are hoping to be driving changes in Indonesia particularly in welding technologies. We started it by creating an excellent quality and best practice in examination for IWE and IWT in response to industrial expectations. We realize that the quality is not an accident but, always a result of intelligent and sustained efforts and we will do our best to maintain it.

I Wayan SURYANA

ANBCC P.R. of CHINA

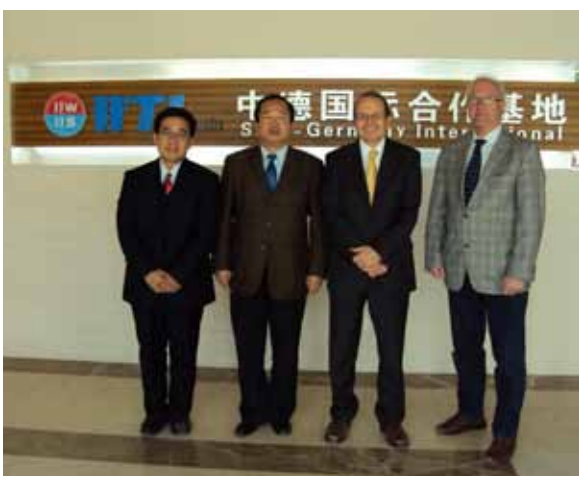
Chinese Authorised National Body for Company Certification (CANBCC)

Chinese Authorised National Body for Company Certification (CANBCC) founded by Chinese Welding Training and Qualification Committee (CANB) is an unique organisation conducting IIW Manufacturer Certification Scheme in China.
Prof. Lin Shangyang, member of the Chinese Academy of Engineering (CAE), chaired the governing board; Prof. Xie Yinglong and Mr. Zhou Junnian were elected as vice chairmen.

The CANBCC secretariat was set up in WTI Sino-Germany International, Beijing, Prof. Xie Yinglong took the responsibility of scheme manager, and Professor Piao Dongguang and Mr. Yu Zhenping were appointed as deputy scheme managers.

CANBCC formally applied to IIW in May 2010, fulfilled the documents assessment on the 15th of June 2010, successfully passed the initial assessment on 12th & 13th of November 2010, and got the full authorization at the Paris meeting in January 2011. CANBCC has assessed 11 companies prior to full authorization.
To fulfill the extensive market demands in China, WTI Harbin and SLV Duisburg, Germany have started cooperation on company certification since 1999. Up to end of 2010, more than 200 companies were certified according to ISO 3834, EN15085 and EN 1090 etc.

WTI Headquarters



Zu Zhenping, Xie Yinglon, Tim Jessop and Hans Gross

According to statistics, there are nearly 10000 welding manufacturers in China, including a large number of foreign companies and international suppliers which may have the demands for company certification. To meet such demands of Chinese welding manufacturers which seek more internationalized development, CANBCC will actively provide company certification services and promote IIW Manufacturer Certification Scheme in China.

Xie Yinglong
ANBCC Scheme Manager

THE EWF SYSTEM FOR WELDERS CERTIFICATION

(EWF Welders Approval System or EWF "Qualification" of Welders System)

European Harmonised Certification of Welders is now available through the compliance with the respective EWF guideline and the subsequent award of a welder certificate with EWF logo trade mark to successful applicants.
As a continual improvement of the services provided to the welding industry, EWF has recently developed a harmonized system for certification of welders which is being implemented in its 29 member countries and thus available to the industry all around Europe.

This international certification complies with the welder's certification standards but adds the international scope when compared to other competitor certifications. Skilled professionals can be easily recognized by the presentation of the welders certificate with the well-known EWF logo trade mark for quality.

The EWF System for Welders Certification, not only complements the EWF European Welders Qualification Guideline, but also gives the possibility to the EWF members to harmonise all processes and procedures that are used to issue a welder approval (certificate).

This new EWF System will give to the EWF members the possibility to enhance the quality of their services in this field and at the same time will enable the manufacturers to have access to more reliable welders' approvals through the EWF stamp. This is achieved not only because of the harmonisation of the procedures and processes needed to issue the welders approvals, but also due to the recognition of the welders' approvals under the EWF framework.

This new system can be used by the EWF members not only as a complement to the EWF welders guideline, but also independently of the qualification system.

This welders' certification system can be applied to any of the welders' approval/qualification standards or construction codes, e.g.: EN 287-1, series ISO 9606, ASME IX, API 1104, AWS D1.1.

The main goal of this system is the development of a set of rules and requirements that each EWF member will implement if they want to issue a welder approval (certificate) with the EWF stamp. The rules include a clear definition about the certification process, e.g.: how and by whom the welder test will be witnessed, how and by whom will the final decision be made. Of course all of this is linked with the requirements defined on the standard or construction code that will be used as the base to issue the welder approval.

The system has been approved during the last EWF General Assembly held in Portugal in December 2010. Any EWF member can ask for the extension of their scope for the implementation of this system.

EWF foresees that this new system will have a positive impact on the EWF members' activity as it addresses EWF members' clients' needs.

Italo Fernandes
Systems Manager

EWF Manufacturers Certification System for the Management of Quality, Environment and Health and Safety in Welding Fabrication

EWF-638r1-10: *Rules for ANBCCs Operating the EWF Manufacturer Certification System*
(Last revision approved May 2010)

EWF-636r1-10: *Management Schemes Interpretation and Implementation*
(Last revision approved May 2010)

EWF-637r1-10: *Supplement for the Implementation of EN ISO 3834 Oriented to Welded Products*
(Last revision approved May 2010)

EWF-639r1-10: *ANBCCs Assessment of Manufacturers of Welded Products Operating the EWF Manufacturer Certification System*
(Last revision approved May 2010)

EWF-644-08: *Fundamentals of Risk Management directed toward assessing and measuring possible risk situations as well as elaborating the strategies necessary for their managment.*

EWF-645-08: *Fundamentals of Company Organisation*

EWF-646-08: *Fundamentals of Management Control*

EWF Scheme for Certification of Personnel with Welding Coordination Responsibilities

EWF-650r1-10: *Rules for the Implementation of EWF Scheme for Certification of Personnel with Welding Coordination Responsibilities*
(Approved January 2010)

EWF Scheme for Certification of Welders, Welding Operators and Brazers

EWF-647-10: *Rules for ANBs Operating the EWF Scheme for Certification of Welders*
(Approved June 2010)

EWF Scheme for Certification & Qualification of Plastic Welders

EWF-581-01: *Designed to provide a harmonised scheme for the comprehensive education and training of plastics welders*

IIW Scheme for Certification of Personnel with Welding Coordination Responsibilities

IAB-341r1-10: *Rules for Implementation of IIW Scheme for Certification of Personnel with Welding Coordination Responsibilities*
(Last revision approved January 2010)

IIW Manufacturer Certification Scheme for the Management of Quality in Welding

IAB-339r1-10: *Rules for ANBCCs Operating the IIW Manufacturer Certification Scheme*
(Approved January 2010)

IAB-337r1-10: *Interpretation and Implementation of ISO 3834 Requirements*
(Approved January 2010)

IAB-338r1-10: *Supplement for the Implementation of ISO 3834 Oriented to Welded Products*
(Approved January 2010)

IAB-340r1-10: *ANBCCs Assessment of Manufacturers of Welded Products Operating the IIW Manufacturer Certification Scheme*
(Approved January 2010)

National Scheme for Certification of Welding Inspectors (supported by IIW)

IAB-347-10: *Rules for Implementation of IIW Scheme for Certification of Welding Inspectors*
(Approved January 2010)

ACCESSWELD

Improvement on the accessibility of welding related training courses

The ACCESSWELD Project, a Leonardo da Vinci Transfer of Innovation approved in last year's Call for Proposals officially started this January 2011.
The project's goal is to draw young audiences (specifically secondary students) to better understand and acknowledge the importance of the welding profession.
In order to ensure this, the project's primary goal is to develop videogame software that will generate additional interest from younger audiences to the welding profession.

On January 31st and February 1st, the project kick-off meeting was held in Portugal hosted by the project's coordinator, EWF. During the kick-off meeting, the main tasks and expected outcomes were discussed, namely the partnership's concept for the implementation of the videogame, with the aim of presenting the idea to a software developer.
The partnership is composed of: **ISPL** (PL), **EWF** (PT), **MhTE** (HU), **IIS** (IT), **ISQ** (PT) and **LTU** - Luleå University of Technology (SE).

INNOVJOIN

Innovation in Distance Learning Welding Courses

This LdV TOI project began in October 2010 and a kick-off meeting was held in Sofia, Bulgaria on January 13 and 14.
The project's main goal is to transfer the use of distance learning tools and methodologies for the training of welders from Germany to the remaining partner countries, i.e.: Spain, Slovakia, Bulgaria and Turkey.
The use of distance learning software at the target countries, based on SLV's expertise is set to greatly improve the welding education environment in the participating countries, creating the conditions for additional students to enroll in welding courses.
The partnership for INNOVJOIN includes **IMS** (BG), **EWF** (PT), **SLV-DU** (DE), **CESOL** (ES), **VUZ** (SK) and **GSI-SLV-TR** (TR)

B-PROF

Informal training recognition in welding

The B-PROF project is the first Grundtvig Multilateral project coordinated by EWF.
The project began in October 2010, with the kick-off meeting taking place at EWF in Portugal on November 22 and 23.
The project's goal is to create an alternative system of certification allowing workers with previously unrecognised welding competences to be reintegrated in the welding market. The results are expected to be in line with the European Qualification Framework, in order to maximize the dissemination of the new system beyond the project's lifetime.
The consortium is composed of **EWF** (PT), **ISQ** (PT), **IzV** (SI), **CPI – National Institute for Vocational Education and Training** (SI), **CESOL** (ES) and **S.R.E. – Servicio Regional de Empleo de la Comunidad de Madrid** (ES).

RAILSAFE 2

The Railsafe 2 project created a System for the education, training, qualification and certification of railway track welders on a common European basis, designed to facilitate compliance with European Standards.

On September 2010 the RAILSAFE 2 Project, which main objective was to develop a new guideline for the qualification and certification of European Arc Welder for Rail Joining and **European Arc Welder for rail Restoration**, came to an end.

In terms of objectives achieved, the project was a success; the new guideline is available and has already been approved for use on the latest EWF General Assembly.

The final proof of the success of the project came on February 2011 through the final assessment report from the UK's National Agency for Leonardo da Vinci projects under the European Commission's Lifelong Learning Programme, ECORYS, where the RAILSAFE 2 project achieved a score of 8 points out of 10!

"The project has many strengths and achieved its main aims in a clear and methodical way. It is very encouraging to see clear and immediate relevance of the main results to the rail welding sector. Its specific focus has helped in working quite closely with stakeholders in each country and allowed the project to focus well on mainstreaming activities."

The next step for the RAILSAFE System and for the EWF MEMBERS is to work together with the National Railway Authorities in their countries, and move forward with the creation of a harmonized qualification and certification of *EUROPEAN ARC WELDER FOR RAILWAY TRACKS*, recognized all over Europe by each National Railway Authority.

"The project has ensured that it was relevant to the identified EU policies. It clearly contributes to Priority 3, transparency and recognition of competences and qualifications. The project is well-focused in terms of the industry concerned and meets a genuine need."

EWF DECEMBER MEETINGS

Working together for new EU Projects

December saw two important meetings being held at EWF.
On December 7th, EWF hosted a meeting to give participants a better understanding of the necessary steps for preparing a EU project proposal, the more relevant programmes they could apply to as well as discussing potential project ideas for the next call for proposals. The ideas discussed at this meeting have translated into actual proposals that have been submitted in the latest Call for Proposals in Febuary 2011.

On December 9th, the 1st EWF Projects Workshop was held at ISQ, in Portugal. The event was planned with the goal of creating additional interest in the EWF members to participate and be more involved in European Projects.
During the day, members who are involved in these activities presented their projects and their major outcomes and results to the audience. At the end of the presentations, a discussion was held between all the participants regarding their own views and expectations concerning EU projects.
It is hoped that, through this event, EWF members will further acknowledge the potential benefits of applying for and participating in EU projects.
The Workshop was attended by over 40 participants from the EWF, as well as external institutions, generating a lot of interest that will hopefully lead to additional Workshops being held in the future.

EWF PARTICIPATION IN EU PROJECTS

Title	Most Relevant Objectives/Results	Consortium
DisTool Weld DISTANCE LEARNING TOOL	Development and implementation of a multimedia distance learning tool introduced by Germany for the EWE course (SLV-Duisburg) in PT, PL, IT and RO.	EWF, ISQ, SLV-Duisburg, ISPL, IIS, ASR
VIRTWELD VIRTUAL TECHNOLOGY IN EDUCATION OF WELDERS	Analysis of virtual systems for welders training and its implementation in EWF/IAB courses.	VUZ, EWF, CWS-ANB, IZV
CWC Certification of Welding Coordinators	Introduction of an internationally recognized certification system for welding coordinators and lifelong education of personnel managing welding production in Slovenia.	IZV, EWF, VUZ
EU-JOINTRAINING	Adapting and promoting a harmonised professional qualification based on EWF Guidelines in the area of plastic joining.	ASR, EWF, SLV-Duisburg, IIS, ISQ, CWS-ANB
B-PROF Informal Training Recognition in Welding	Developing an Accreditation of Prior Learning System (APL) to certify workers with confirmed experience as welders Adapting project results to conform to current European Qualification Framework.	EWF, ISQ, CESOL, IzV, S.R.E., CPI
ACCESS WELD	Development of a computer game to make welding more appealing to younger audiences.	EWF, ISQ, ISPL, MHtE, IIS, ASR, LTU
INNOVJOIN	Translation and implementation of a distance learning tool in Bulgaria, Spain, Slovakia and Turkey, for European Welding Engineers.	EWF, CESOL, VUZ, SLV-Duisburg, SLV-TR, IMS-BAS
WS3834 Quality Welding Standard EN-ISO 3834	Raising awareness on the importance of complying and implementing the qualification of welding personnel according to EN-ISO 3834.	CESOL, EWF, ISPL, ASR, VUZ, S.R.E.
TestPEP	Development of an effective NDT technique for determining the significance of flaw types and sizes in plastic pipeline welding.	EWF, TWI, British Plastics,AiPND, Cofrend, British Energy, EWF, Vermon, Isotest, M2M, Plasflow, KTU, Hessel Eng., CCR, EON, SMART
Ship Inspector	To develop new and novel ultrasonic phased array techniques, sensors and systems for finding defects and corrosion in safety critical areas of ships and tankers without taking the vessel out of the water.	TWI, DGZfP, USNDT, BGSNT, AIPnD, SMART, IT Nardoni, Isotest, Tecnitest, Cereteth, HSE, ABS, Lloyds Register, Class NK, EWF, Biomechanical Solutions