

NEWS

Interview



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Editorial

IIW- International Institute of Welding aims at being the global body in the science and application of joining technology providing networking and knowledge exchange. It was founded in 1948.

IIW's work is structured in Technical Commissions with terms of reference in the different welding technology subjects, one of which Com XIV aiming at development of Education and Training activities within the IIW member countries.

EFW- European Federation for Welding, Joining and Cutting started its activities with the harmonization of training and qualification of welding personnel in Europe, based on an analysis of the existing levels of education in welding in the EU and EFTA countries. From the results, it was possible to define common harmonised levels of education, training and qualification.

A similar work was conducted for countries outside Europe in Com XIV of IIW and, in 1998, EWF and IIW signed an agreement which formed the basis of the internationalisation of the European Training and Qualification System. Consequently, **IAB – International Authorization Board** – was created to manage this System.

The harmonised courses, which are now offered in most countries, combine both underpinning knowledge and application experience, thereby providing close links with industrial practice. After the main education, special courses for additional learning are offered in many special areas, thus providing a specific education still closer to the job function.

Training and education are issues on which depends the future of the industry – a well qualified work force avoids costly mistakes and is essential for customers. Therefore, IAB and EWF keep continuously in close contact with industry development, conducting surveys and analyses, which are used when updating the existing Guidelines or when implementing new ones.

Luisa Quintino
EFW Chief Executive

Rute Ferraz
IAB Chief Executive

Presenting the International Authorised National Bodies

Meet German ANB - DVS

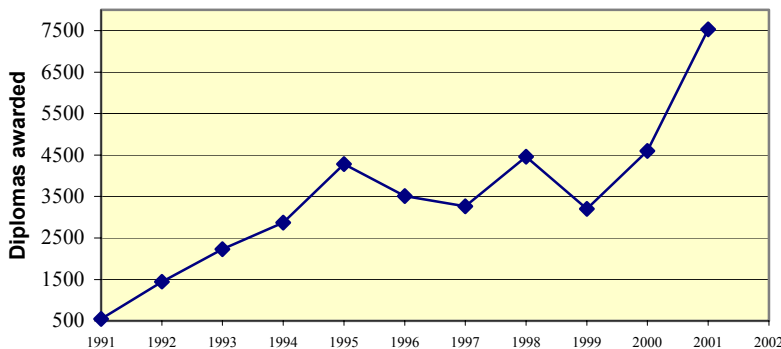
DVS has contributed significantly to the success of the development and expansion of the Training and Qualification System in Europe.

DVS – Deutscher Verband für Schweißen und verwandte Verfahren e. V. - representative of Germany - joined the first Welding Council in Europe – ECCW – European Council for Cooperation in Welding, created in 1974 with 6 countries.

In 1991 EWF was created on the basis of ECCW and DVS was thus one of the founder members.

The first objective of EWF was the development of a European harmonised system for Training and Qualification for Welding Personnel. DVS undertook the chairmanship of the Committee created to develop the training guidelines. The first guideline was published in 1991 and nowadays EWF has 15 more guidelines.

The management of the EWF Training and Qualification System is assured in each country by an ANB-Authorised National Body, which in Germany is DVS-PersZert® located at DVS.



The implementation of the EWF Training and Qualification System in Germany started in 1991 with the award of 545 EWF diplomas and has grown since then to 7.500 in 2001.

Up to this moment, the German ANB has recognised 430 Authorised Training Bodies and has awarded more than 320 diplomas in other countries.

Total of diplomas awarded by the German ANB from 1991 until 2001

IAB 2000 - 2001

One of the most important IIW / IAB's goal is to organise the exchange of scientific and technical information in order to contribute for the transfer of knowledge related to these techniques. Thus, IAB prepares recommendations, state-of-art reports, as well as guidelines in the technical field.

The result of the IAB activities in 2001 had led to the award of a total of 9.734 diplomas.

A new guideline for training of Inspection Personnel was approved in January 2002.

For more details contact the IAB Secretariat

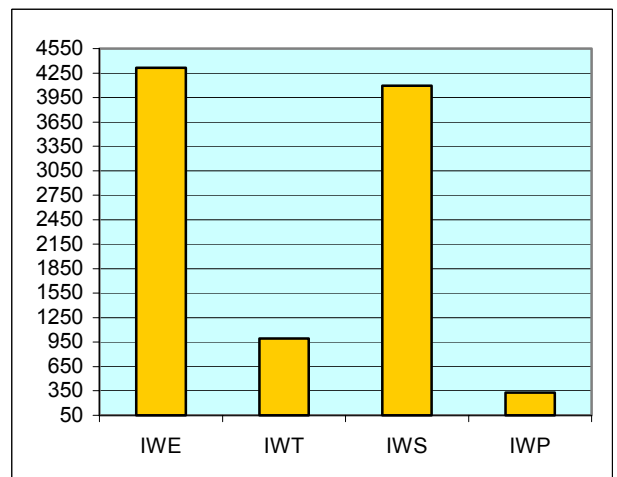
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NEWS

NEW PROJECTS

“NETFRAME”

EFW has been invited to participate in this project within the EC-GROWTH. It aims at improving the support of efficient concurrent engineering processes amongst large industrial manufacturers and their supplier SMEs.

NETFRAME will develop a comprehensive and tested framework of best practices, testing, auditing, training and assessment schemes in order to provide for an improved working environment both for SMEs and large industrial companies.

OTHER PROJECTS

EFW participated in two LEONARDO projects finished in 2001.

The WELD-ON project aimed at the development of an interactive questionnaire for analysing the impact of the EWF training and qualification in the professional careers of the trainees. It also aims at getting inputs for improvement of the EWF Training and Qualification System. The EWF ANBs have conducted a pilot-test with this questionnaire.

Within the WELDICTION project, a multi-media dictionary for welding terminology in seven languages was developed. It comprises approximately 150 terms with illustrative images, charts and video sequences. A CD was produced and a demonstration is available in the EWF internet-site.

INTERNATIONAL FAIRS

“Joining of Aluminium and Magnesium”

Sibenik, Croatia

September 19-21 September 2002

SUPERMARTENSITIC

STAINLESS STEELS 2002

A two days' international conference in

Brussels – Belgium

3-4 October 2002

EXPOSVARKA 2002

International Welding Fair and International Conference on

“Welding-Quality-Competitiveness”

Moscow - Russia

Expocenter “Krasnaya Presnya”

22-25 October 2002

WELD EXPO

Toronto, Canada

22-24 October 2002

INTERVIEWing...

Dr. David Howden,

Chairman of IAB and Vice President of IIW

The opinion of the IAB Chairman on the IIW Qualification System

The International System for Training and Qualification has been established by IIW/EFW in 2001. What is, in your opinion, the potential of this system?

With increasing globalisation of manufacturing/fabrication, we are becoming more dependent on each other in the need to assure quality worldwide. The EWF/IIW System for the harmonization of welding training and qualification is the first step in this direction and promises great potential worldwide.

This System is based on the European Training and Qualification System in use in Europe for approximately 10 years. Do you envisage any problems in the implementation of the system in the new countries outside Europe?

Harmonisation of training, qualification procedures and standards has been a challenge even within Europe where cultures and customs are closely related, or at least understood. Extending this system on a worldwide basis has, and will present even greater challenges. Early indications, however, are that with patience and perseverance, the harmonization process is remarkably well.

In your opinion, what member countries are reacting more positively to this system?

Naturally the European countries have more experience with the system and are using it extensively. Outside of Europe, Asian countries – particularly China and Japan – have reacted both positively and quickly.



Which are the main issues in the IIW/EFW strategy to increase the awareness and search of the International Welding Qualifications in Europe, as well as abroad?

I think that there are two main issues.

First, national codes must be made aware of the value of a harmonised qualification system. ISO standards are advancing in this direction. National codes outside of Europe address welding quality but not always in the same way. We must remain flexible to accept different approaches to quality assurance provided that the results are compatible.

Second, industries that are operating in the international arena must be made aware of the advantages to be gained by employing well trained and qualified personnel and that they be recognized by an international body, such as IIW. We must be careful, however that any new requirements replace older ones rather than increase the regulatory burden on industry.

USEFUL INFORMATION

IAB-International Authorisation Board **INTERNATIONAL GUIDELINES**

➤ **IWE – International Welding Engineer** **Doc. IAB-002-2000/EFW-409**

The guideline aims at providing post-graduation training for people with a University degree, that are responsible for welding operations and constructions. It gives access in Europe to the welding coordinator certificate referred in EN 719.

- Theoretical education:
“Welding processes and equipment”-102h
“Materials and their behaviour during welding”-110h
“Construction and design” – 64h
“Fabrication, applications engineering” – 110h
Fundamental Practical Skills – 60h
- Duration – 446 hours

➤ **IWT– International Welding Technologist** **Doc. IAB-003-2000/EFW-410**

This guideline covers the minimum requirements for the education, examination and qualifications agreed upon by all IIW Authorised National Bodies (ANBs) in terms of models, subjects, key words and times devoted to them.

- Theoretical education:
“Welding processes and equipment”- 80h
“Materials and their behaviour during welding”- 80h
“Construction and design”-40h
“Fabrication, applications engineering”-80h
Fundamental Practical Skills – 60h
- Duration– 340 hours

➤ **IWS– International Welding Specialist** **Doc. IAB-004-2000/EFW-411**

The guideline is designed to provide basic core Education in welding technology for welding personnel being active in job functions such as inspection, supervision, foremanship, instruction and technical sales.

- Theoretical education:
“Welding processes and equipment”-45h
“Materials and their behaviour during welding”-45h
“Construction and design”-22h
“Fabrication, applications engineering”-50h
Fundamental practical skills – 60h
- Duration– 222 hours

➤ **IWP– International Welding Practitioner** **Doc. IAB-005-2000/EFW-451**

This guideline covers the minimum requirement for education and training of welding foremen and supervisors in the manufacturing industry.

- Theoretical education:
“Welding processes and equipment”-22h
“Materials and their behaviour during welding”-22h
“Construction and design”-8h
“Fabrication, applications engineering”-32h
“Examination and review”-2h
Practical part – 60h
- Duration– 146 hours

➤ **IWIP– Int. Welding Inspection Personnel** **Doc. IAB-041-2001/EFW-450**

The guideline is designed to provide the care education in welding and inspection technology required by those responsible for performing inspection tasks at various levels.

This Guideline sets out the education for 3 Levels of Inspection Personnel:

Welding Engineering Modules

	Comprehensive hours	Standard hours	Basic hours
Welding process and equipment	26	16	14
Materials and their behaviour during welding	52	41	25
Construction and design	21	17	12
Fabrication, applications engineering	22	21	15

Welding Inspection Modules

	Comprehensive hours	Standard hours	Basic hours
Including theoretical Education and Practical work	97	63	42
Total	218	158	102