



CORPORATE PROFILE 2018



CORPORATE PROFILE

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About EWF



In 1992, EU member countries where welding courses were offered started a process to harmonise its education content and implementation, and the European Federation for Welding, Joining and Cutting (EWF) was started. By using a single syllabus for each level of the training course and a harmonised system for examinations, the same qualification can be awarded in any country. EWF developed the comprehensive and harmonised system that it has been managing ever since, for training, qualification and certification of welding personnel, taking a leading role in innovation in learning methodologies. It is also responsible for the Certification System of Companies using welding in Quality, Environment, Health and Safety.

The challenges addressed by EWF are two-fold – respond to industry’s professional profile requirements, and providing courses that leverage current technological trends and their impact on evolving lifestyle and information acquisition patterns.



Currently, EWF has 28 European member countries and two observer members from outside Europe, represented by their national welding societies. The Federation licensed its Qualification System to IIW (International Institute of Welding) in 2000, and since then a combined EWF/IIW System has been offered in 46 countries worldwide, totalling 44 ANBs (Authorized National Bodies) and 683 ATBs (Authorised Training Bodies). The network also includes 55,000 companies worldwide. Beyond the most obvious benefits of the system’s harmonised approach to training, qualification and certification, its adoption is also due to a result of its a robust and transparent quality system, one that is widely accepted by the ecosystem

of individuals and organisations involved, from training institutions to national certification bodies, companies, trainers and trainees, and which is the backbone for assuring the same skills for any person holding an EWF diploma, awarded throughout the world.

EWF has been hard at work to ensure that, when needed, companies will have professional profiles ready to be applied to their local or global operations. As a result, the most recently required professional profiles in the area of manufacturing are regularly evaluated and added, such as the case of those about Industry 4.0 and its widely known offspring, Additive Manufacturing.

The cornerstones underlying the long-term vision and strategy of EWF are the following:

- Ensure that the Training and Qualification System is updated to comply with technical innovation and industrial demand;
- Develop new qualifications in line with technological and industrial advances;
- Provide a pathway for continuous professional development for professionals in manufacturing;
- Ensure the quality of the EWF diplomas, by running a rigorous quality assurance system in the countries throughout the world that are using the System.



Mission & Vision



MISSION:
To provide world-class, European focused, value-added products and support services to its members and their communities in the fields of joining, welding and related technologies on an international basis.

Over the years, EWF has become a key stakeholder in the welding, joining and related technologies community, engaged in the preparation, participation and management of projects spanning Vocational,

Educational, Training and Research and Technological Development, to keep the community abreast of the most recent developments relevant to its core goals.

Looking forward, EWF will be closely monitoring the unfolding trends that are shaping Europe's and the world's manufacturing, as well as working side-by-side with the European thought leaders that are defining the region's industrial future. The Federation's long-term commitment to drive the state-of-the-art in qualifications has led to the exploration of the most recent and advanced ICT tools, enhancing digital integration in learning, teaching, training and youth work at various levels, including online, webinars and other new forms of training.

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Vision:
To provide world-class, European focused, value-added products and support services to its members and their communities in the fields of joining, welding and related technologies on an international basis.

Our Team

EFW has a team of experts, whose qualifications provide the support needed for its international activities. The team covers the fields of training, qualification and certification of personnel, certification of companies, standardisation and intellectual protection rights, in technologies ranging from welding adhesive bonding, additive manufacturing, amongst others relevant to manufacturing's future. EWF also covers technical areas such as quality, health and safety, and ergonomics.

Chris Eady, President



Elected EWF President for the period 2017-2019, Mr Eady is also actively involved in other organisations connected to the industry, such as Chief Executive of the TWI Certification Ltd and associate director for professional affairs at The Welding Institute. Mr Eady is committed, throughout his presidency, to increase the availability of internationally recognised products and services that satisfy industry requirements, support employment and enable career progression.

Executive Team

Luisa Coutinho, Executive Director



Professor of Mechanical Engineering, at Instituto Superior Técnico, University of Lisbon, Portugal, as well as Director of the European Welding Federation since 1992. Prof. Luísa Coutinho coordinated and participated in more than 100 national and international projects ranging from research to transfer of technology and training since 1986 and has published more than 200 papers, in national and international journals and conference proceedings, and books. Her work has been recognised internationally in different forums through two honorary doctorships and ten international awards.

Rute Ferraz, Chief Executive



Manages the International System for Qualification and certification of Personnel and Companies, since 2002 and is EWF Lead Assessor.

Mrs Ferraz has an international professional career of over 25 years in Quality Management in Italy, Brasil and Argentina and at present also is Director of the Training Department at ISQ – Instituto de Soldadura e Qualidade.

Eurico Assunção, Deputy Director



Deputy Director of EWF as well as an invited lecturer at Instituto Superior Técnico, University of Lisbon, in Laser Processing. Mr Eurico Assunção holds a degree as Doctor of Philosophy (PhD) Welding Engineering, from the University of Cranfield and a European and International Welding Engineer Diploma. Is responsible for the Collaboration Projects of EWF and has coordinated more than 20 large projects involving organisations from all EU. Also manages the Sub-Platform "Joining" within the EU Platform "Manufuture"

Ewf Technical Committees

TECHNICAL COMMITTEE

Chairman: Stefano Morra

The EWF Technical Committee is set up by the General Assembly for covering several areas of competence: Standardisation, Certification, Training and Qualification in the welding, joining and cutting fields and EWF System Rules. Each area of competence consists of several working groups implying a continuous activity, without any time limit. It consists of the Chairman of Technical Committee, a convenor per area of competence and the representatives of the members and working groups.

TRAINING AND QUALIFICATION

Convenor: Luca Costa

Develops, maintains and updates the EWF System for Qualification of Personnel to keep it consistent with the European rules and industry needs, assure consistency of the overall EWF System and keep liaisons with the personnel certification schemes.

CERTIFICATION

Convenor: Stefano Morra

Develops the strategy for the EWF System for certification of Personnel and Companies in line with the European Standards, directives and industry needs; assures consistency of the EWF Certification Schemes with EU legislation.

EWF SYSTEM RULES

Convenor: Italo Fernandes

Ensures the update of EWF rules and requirements for Personnel Qualification and Certification (PCS) according to the EWF developments; Develops the EWF Operational Systems documents depicting the EWF organisational structure and terms of reference for each body.

EUROPEAN UNION TOOLS

Convenor: Luisa Coutinho

European Projects, collaboration between the European Organisations, EU Rules and instruments. Assists EWF members in developing project proposals and facilitate the dissemination of upcoming European Project calls.



52

COURSES
QUALIFICATIONS
& CERTIFICATIONS

23

TRAINING
GUIDELINES

MORE THAN

650

AUTHORISED
TRAINING
CENTRES



ONE SYSTEM 46 FORTY SIX COUNTRIES



Key Activities

1. Education, Training and Qualification of Personnel

The EWF Qualification System has several types of professional training covering welding, bonding and related techniques. This harmonised system of education and training has been adopted by IIW as an International Qualification System since 2000.

Its relevance has been recognised both by ISO and CEN that have EWF as a liaison member.

These different technologies, like particular processes, require that the quality of the product must be incorporated during the manufacturing/maintenance, and cannot be ensured only by final testing. That entails personnel with particular high level of knowledge, skills and competences which can be obtained through the EWF Qualification System.

There are three pillars which support the EWF Harmonised International Qualification System:

Technical Committee

Qualification guidelines, rules and procedures are developed and approved by all members

The National Member

Responsible for the supervision and implementation of the system through the Authorised Nominated

The Approved Training Centers

Approved Training Bodies - ATBs implement the qualification guidelines

In 2012, on its annual report about International Certifications, the European Center for the Development of Vocational Training (CEDEFOP), has considered the EWF Q ualification System as the best case example, recognising the ground-breaking work done by EWF on creating a qualification framework which has been globally adopted.

2. Certification of Welding Personnel

Three Certification Schemes for Personnel have been developed.

- Welding Coordination Certification exists since 1998 and was adopted by IIW in 2007 and is currently recognised worldwide, allowing Welding Coordinators to be certified according to the requirement of ISO 14731.
- Plastic Welders Certification exists since 2004, providing training and certification according to EN 13067.
- Welders, Welders Operators and Brazers Certification exist since 2010. The goal of this scheme is to harmonise the welder's certification process necessary for a welder approval.

3. Certification of Companies

EWF has created an Integrated Manufacturers Certification Scheme.

This integrated scheme complies with ISO 3834 – Welding Quality requirements (that is in place since 1998), ISO 14001 and OSHAS 18001 - Environment and also Health and Safety (these two systems are in place since 2000). The Scheme has been adopted by IIW, only for the Quality field.

4. Projects

EWF has been and is currently involved in the preparation, participation and management of vocational, educational, training and RTD (Research & Technical Development) projects to ensure that the EWF system is kept up-to-date and by industry's requirements. In 2017 alone, EWF has been involved in 30 international collaboration projects involving over 100 organisations from 25 countries.

5. Products

EWF has been developing support tools for its members and the industry, in particular related to the implementation of new standards, translation of welding terminology, training materials and new areas where there is a need for new products and services.

One such example is the development of the leading-edge EMFWeld online service, which assesses workers' exposure to magnetic fields generated by welding and inspection equipment in compliance with European Directive 2013/35/EU.

Highlights & Main Projects

EWF has reached a significant milestone with its 25th anniversary.

MORE THAN

300.000
INDUSTRIAL PERSONNEL QUALIFIED



Throughout these years, the Federation has strived to Train, Qualify and Certify the best professionals!

MORE THAN
650
AUTHORISED
TRAINING
CENTRES

EWF maintains its engagement in projects involving its members and the industry for the benefit of European competitiveness, at the same time as it is also looking at new areas that could profit from the expertise of its members and associate entities.

The Federation has also been exploring the most recent and advanced ICT tools, enhancing digital integration in learning, teaching, training and youth work at various levels, including online, webinars and other new forms of training that will meet the changing workforce habits on information gathering and learning.

EMFWELD

To continue evolving into new areas and opportunities, EWF has been engaged in the development of an online service that performs assessments of workers' exposure to magnetic fields generated by welding and inspection equipment and processes relative to the action levels specified in European Directive 2013/35/EU.

This new tool is available at EMFWeld website and generates reports that can lead to an improvement in the process and in compliance with the Directive.



WELDCUP 2017

Already in its third edition (European Young Welders Contest 2017 @ Schweissen & Schneiden Fair, Germany), WeldCup is a welding skills competition for young welders from across Europe, allowing competitors to showcase their abilities and meet other welders from Europe and beyond. It is aimed at fostering interest in the welding profession while promoting the career opportunities that exist in the industry, as well as recognising welding excellence amongst competing young welders.



Core Projects



EFW, in close cooperation with its members, has been regularly engaged with many EU Programmes and projects since its creation, with over 50 projects already developed. Acting as a representative of the European metal manufacturing community. It supports the exchange of scientific and technical information and contributes to the removal of technological barriers between institutions from different countries.

Project topics range from Health and Safety and Ergonomics to Technological development and Innovation, namely in training materials and methodologies. The Federation is engaged in vocational and educational training and more recently has been active in projects related to Industry 4.0 and the Internet of Things, which are disrupting manufacturing. Furthermore, the European Technology Platform "Manufuture", which provides input from the industry regarding strategic direction for research and innovation in manufacturing, has identified Joining as a key enabling technology for manufacturing. EFW has taken part in all strategic areas identified in the Sub Platform Joining, from definition to dissemination.

EFW sees the participation in European funded projects as a core element of its activities. The participation in EU projects allows EFW to keep actively researching innovative ways to improve training and qualification of personnel, as well as keeping the EFW qualification and Training System updated and answering real industrial needs.

- 01** **Harmonisation and Modernisation of the EWF System** 

- 02** **State-of-the-art Courses/Modules** 

- 03** **Benchmark to other Manufacturing Areas** 

- 04** **Modernisation of learning methods** 

- 05** **Support for learning** 

- 06** **Implementation in new countries/new markets** 


Project topics cover a variety of areas like Additive Manufacturing, Health and Safety, Microbonding, Laser processing and Adhesives, that go beyond Welding and Joining and target Manufacturing as a whole.

SINCE 1992



PROMOTING EDUCATION. SUPPORTING INDUSTRY.

+50

EUROPEAN
PROJECTS



30 MEMBERS
25 YEARS OF ACTIVITY

+400



ARTICLES
PUBLISHED



**ONE GAME
& TWO APPS
DEVELOPED**



EWF

VISIT US!



EWF.BE

EFW Network Members



MEMBERS

As the leading professional organisation managing the only international harmonised system of training, qualification and certification of welding and joining personnel, we are continuously providing support to our members and to a worldwide community, European focused, to ensure that the future workforce is prepared for the challenges of industry 4.0

The EFW network is composed of 28 European Members and 18 Non-European members – The National Welding Institutes.

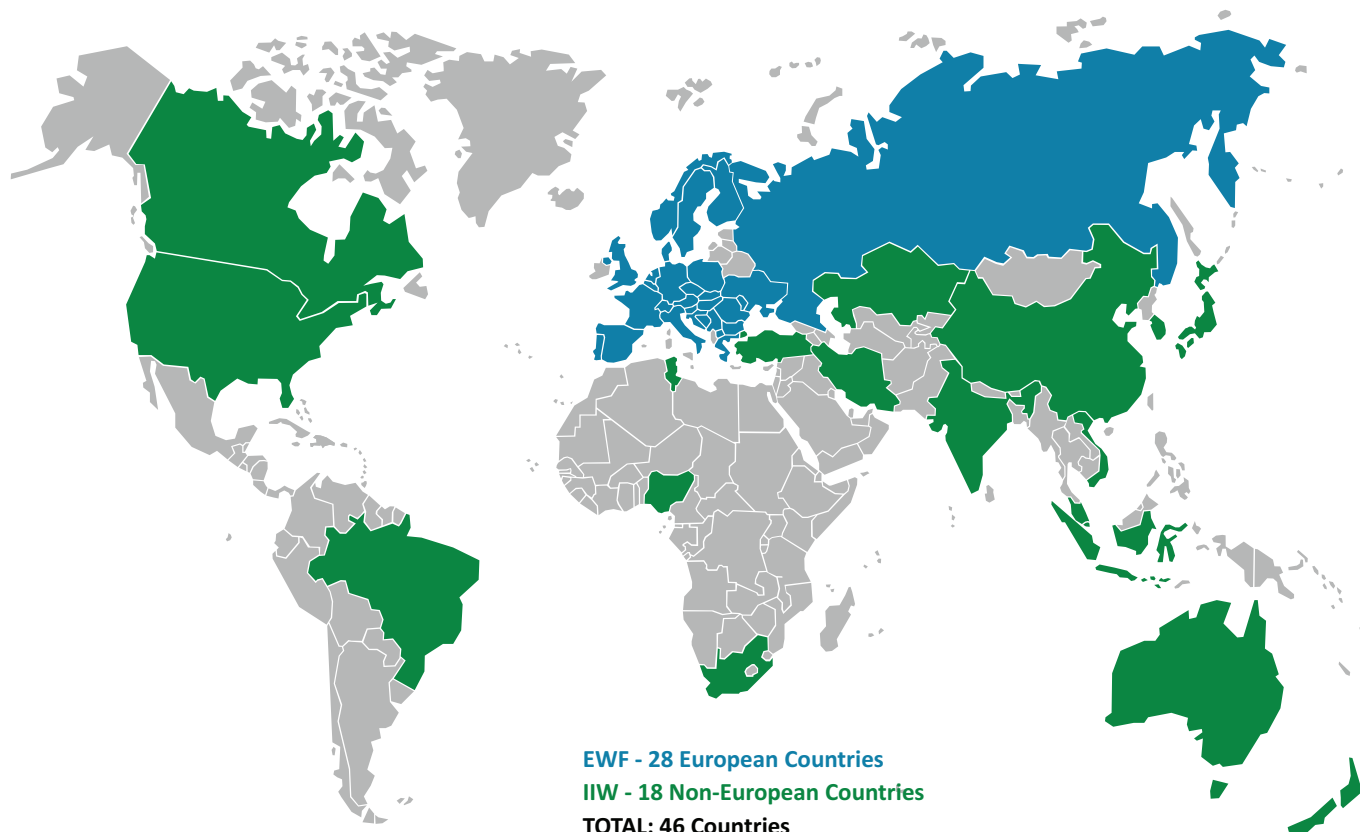
This network amounts to 44 ANBs (Authorised Nominated Body) (27 European and 17 Non-European), 25 ANBCCs (Authorised Nominated Body for Companies Certification) (16 European and 9 Non-European) involving over 50,000 companies worldwide.

NETWORK COMPANIES

EFW works with a network of companies leading the industry on the usage of the most advanced tools and the qualification of its personnel. The number of firms who participate is a testimonial to the success of the Federation. The EFW network includes more than 55,000 companies, from 28 European countries and 18 Non-European countries.

NETWORK TRAINING CENTRES

EFW works with several training centres who deliver the actual training to the metal manufacturing community. It is, as such, in a very close alignment with the industry, to ensure the quality of the training and the availability of training and certification to the most recent and advanced processes. The network of Training Centers amounts to more than 650 worldwide.





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