



Newsletter

European Federation for Welding Joining and Cutting

Autumn • 1995 • 1

Editorial

Training and education are issues on which the future of European industry is dependent. In fact a look through the publications and newspapers which reflect informed opinion in Europe will confirm that there is considerable national concern for these topics. Moreover, the investment on the part of the European Union in programmes related to training and education which, in the case of the ongoing 4th Framework Programme, amounts to ECU 744 million, is indicative of the paramount importance these issues have assumed.

EFWJ - The European Federation for Welding, Joining and Cutting, in conjunction with the relevant national welding institutes and organizations of 24 European countries, has made great efforts in the updating and harmonization of training and education in the field of welding technology.

The present newsletter, the first ever published by EFWJ, aims to provide information on the work undertaken and the results achieved so far. Readers will learn about Quality Assurance Systems being implemented in Europe and gain an insight into the relevance of the European training system in welding, including its guidelines.

Forthcoming similar publications will reflect the nature of EFWJ's Training and Qualification activities.

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WHAT IS EFWJ ALL ABOUT?



The EFWJ is an international non-profit association whose principal aims are:

- . to collaborate in the study and solution of welding-related problems encountered within its fields of competence. These include joining, cutting and surface treatment of all types of materials by processes such as welding, brazing, soldering, thermal cutting, thermal spraying, adhesive bonding and microjoining, as well as quality assurance, non-destructive testing, inspection, health and safety, education and training, design and manufacturing
- . to contribute to the removal of technical barriers
- . to act as the representative of the welding community in Europe.

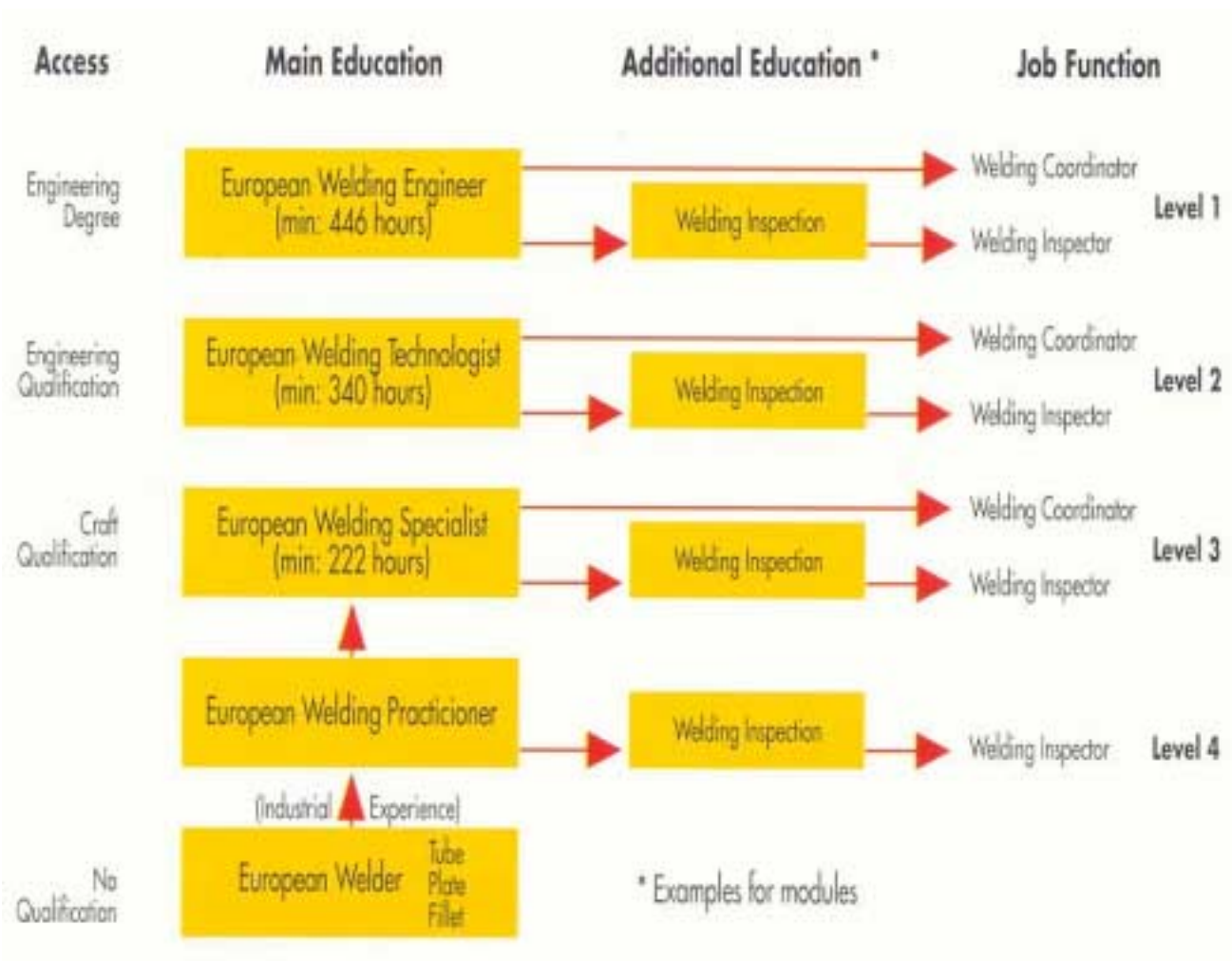
EUROPEAN TRAINING IN WELDING

THE EWF HARMONIZED SYSTEM

The analysis of the existing levels of education in welding in the EU and EFTA countries undertaken in the early 1980's, showed some similarities. Hence, it was possible to define common harmonized levels of education, training and qualification.

This figure also shows for which job functions in welding coordination or welding inspection the courses are suitable, although the knowledge acquired is also very useful in many other functions in industry. The harmonized courses, which are now offered

Education System



The figure provides an overview of the current component parts of the European system for education and training in welding technology. The EWF Committee for Education and Training has prepared guidelines for courses giving the contents in terms of themes, keywords and minimum times assigned to them. For the access requirements the qualifications of the general education systems within the EU and EFTA countries were carefully checked and defined in the appendix 1 of every guideline.

in most European countries, combine both underpinning knowledge and application experience, thereby providing close links with industrial practice. After the main education, special courses for additional education in many special areas (special processes, materials, design, etc.) are offered. These special courses provide a specific education still closer to the job function.



CEN STANDARDS AND EWF EDUCATION AND TRAINING

The Committees 2 and 3 of the EWF keep in close contact with the Committees of the TC 121 of the CEN. This is very important because both activities are closely related to each other. In a simplified way we can state that the EWF courses in Europe create persons with specific skills and knowledge who are employed in certain functions which are described by CEN Standards. This means that we have strictly to differentiate between education and training on the one hand and job functions on the other. So we need different names for qualifications and job functions to avoid misunderstandings. Education and Training in EWF courses finishes with

Link between EWF and CEN



an examination. With positive results, the candidate will be qualified with a diploma which is valid for life, much like a diploma awarded by a university or college. Such a diploma shows therefore, that a candidate at the time of issue was qualified in terms of skills, knowledge and understanding at a particular level. Certification of job competence is a further step in which the individual's current ability to perform specific tasks or roles is evaluated, and in this evaluation the EWF qualifications demonstrate key features of competence. These certificates mostly are restricted in time and have to be renewed under certain conditions.

HARMONIZATION IN THE IMPLEMENTATION OF THE EWF GUIDELINES

- . ANB - Authorised National Body - National Body authorised by EWF to implement the guidelines
- . Authorization only granted after successful assessment and audit coordinated by the EWF appointed Lead Assessor
- . Audits are carried out in accordance with specifications defined by EWF
- . National accreditation to EN45013 "General Criteria for certification bodies operating certification of personnel" is recommended
- . Audits are carried out every 5 years with surveillance audits in between.

LIST OF ANBs OPERATING IN EUROPE

Sthweisstechnische Zentrolqnsfalt
ARSENAL OBJ. 207
A - 1030 VIENNA
AUSTRIA

Association Belge du Soudage
12 rue des Drapiers
B - 1050 BRUXELLES

FORCE-Dantest Cert
Park Allé 345
DK - 2605 BRONDBY
DENMARK

Suomen Hitsaustekniillinen Yhdistys v.y.
The Welding Society of Finland
Makelankatv 36 A 2
SF - 00510 HELSINKI
FINLAND

Association Française du Soudage
ZI - Paris Nord II
BP 50362
F - 95942 ROISSY CGD Cedex
FRANCE

Deutscher Verband für Schweißtechnik
Aachener Strasse 172
D - 40223 DUSSELDORF
GERMANY

Istituto Italiano della Saldatura
Lungo Bisagno Istria 15
I - GENOVA
ITALY

Comission Nationale de la Soudure
29, Rue Aldringen
L - 2926 LUXEMBOURG
LUXEMBOURG

NIL - Netherlands Institute of Welding
Krimkade 22
NL - 2251 KA VOORSCHOTEN
THE NETHERLANDS

Norwegian Welding Society
Oscargt. 20
N - 0306 OSLO 3
NORWAY

Instituto de Soldadura e Qualidade
Estrada Nacional 249 - Km3
Taguspark - Cabanas - Leião
P - 2780 OEIRAS
PORTUGAL

CESOL - Asociación Española de Soldadura
c/ María de Molina, 62 - 8ªA
E - 28006 MADRID
SPAIN

Swedish Welding Comission
Box 5073
S - 10242 STOCHOLM
SWEDEN

Schweizerischer Verein für Schweißtechnik
St. Alban-Rheinweg 222
CH - 4052 BASEL
SWITZERLAND

TWI - The Welding Institute
Abington Hall - Abington
UK - CAMBRIDGE CB1 6AL
United Kingdom

ETCETERA

The European Federation for Welding, Joining and Cutting, has completed a number of new guidelines for training and qualification.

The EWF guidelines for training are:

- EWE European Welding Engineer
- EWT European Welding Technologist
- EWS European Welding Specialist
- EWIP European Welding Inspection Personnel
- EWP European Welding Practitioner
- MMA European MMA Welder
- ETSS European Thermal Spraying Specialist

All guidelines foresee a transition period during which those qualified under national schemes can become qualified under the appropriate EWF scheme without further training or examination:

- . EWE European Welding Engineer, until 31 December 1998
- . EWT European Welding Technologist, until 31 December 1999
- . EWS European Welding Specialist, until 31 December 1999
- . EWP European Welding Practitioner, until 31 December 1998
- . EWIP European Welding Inspection Personnel, until 31 December 1998
- . ETSS European Thermal Spraying Specialist, until 31 December 1999
- . MMA European MMA Welder, until 31 December 1998

Up to the end of 1994 the total number of diplomas issued by EWF is for EWE - 6777, for EWT - 897 and for EWS - 1827.

EWF has approved the guideline for the European MMA Welder on 17-11-94. This provides the basis for a wide universal and flexible skill which leads to an EWF diploma. Welders with this diploma can apply for the EN 287 certification without further training or examination. In November 95 it will take place the EWF General Assembly in which it is expected the approval of the guideline for the European MIG/MAG Welder.



Actual Structure of EWF

