



Friction Stir Welding European Qualifications

Impact and Sustainability of FSW-Tech Results at National Level



Slovakia – VÚZ



Romania – ASR



Slovenia – IZV



Portugal – ISQ

A banner for a conference. The main title is "APPRENTICESHIP IN THE EWF SYSTEM & THE FSW EUROPEAN QUALIFICATIONS". Below the title, it says "FINAL CONFERENCE - 30TH OF OCTOBER 2019 - OEIRAS, PORTUGAL". At the bottom of the banner is a row of six small images showing people working in a laboratory or industrial setting, including one person welding.

Co-funded by the
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of the European Union



Slovakia – VÚZ

- ✓ Creating a system of an education, testing and certification will bring a highly qualified staff in the FSW field to our market. It will enable this progressive method of material welding to be used and developed;
- ✓ Experts working for these companies can review their knowledge and skills which are necessary for proper performance of their tasks and which can also give them better opportunity to get employed;
- ✓ **Experts and companies** – it will be to mutual benefit to create working places by companies joined in FSW and development of harmonized system of expert preparation and guidelines for EFSW-O, EFSW-S and EFSW-E, which give international recognition and education validation, support transparency and mobility within Europe;



Impact

Slovakia – VÚZ

- ✓ VET system will profit from setting up EFSW-O, EFSW-S, EFSW-E and curriculum;
- ✓ Universities – they can have a direct benefit from the realization of educational units of FSW in master's study programmes or short courses and vocational education and training;
- ✓ Partner countries of EWF – they can integrate experience obtained from practice and adaptation of the content to their needs.



Sustainability

Slovakia – VÚZ

- ✓ Promotion of FSW technology – conferences, professional magazines, active searching of companies where it would be possible to use this technology
- ✓ Cooperation with companies that produce and sell welding equipment for FSW-tech
- ✓ Using and offering FSW technology in new projects
- ✓ Address specific companies such as VW, Peugeot, Jaguar on the Slovak market



Romania – ASR

Conferences

"Annual Conference of Welding Coordinators"

October 18 - 19, 2018 in Buzau, event with over 90 participants



Conference "SUDURA 2019" from Craiova. Event with over 80 participants



"Annual Conference of Welding Coordinators", Sibiu, 17-19.10.2019. Event with over 120 participants



Articles

February 2018

- ✓ Sent by email at 900 persons
- ✓ facebook – Impact: 2288

December 2018

- ✓ Sent by email at 900 persons
- ✓ facebook – Impact: 1655

June 2019

- ✓ Sent by email at 900 persons
- ✓ facebook – Impact: 1005
- ✓ LinkedIn – Impact :2351

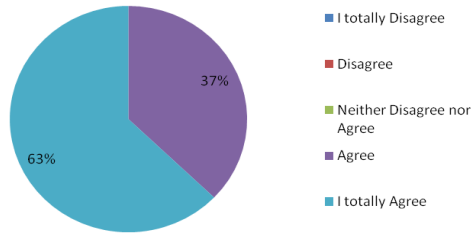
Impact & Sustainability



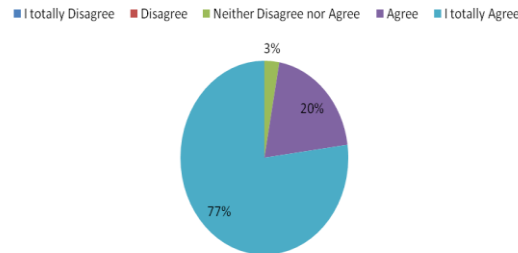
Hands on
Approach
Seminar

Romania – ASR

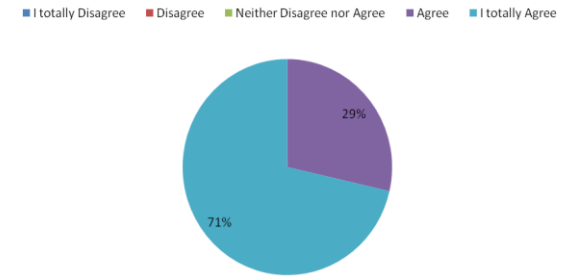
Information and training provided were clear and easy to follow



Communication style kept me focused and interested



Provided practical examples to illustrate the point

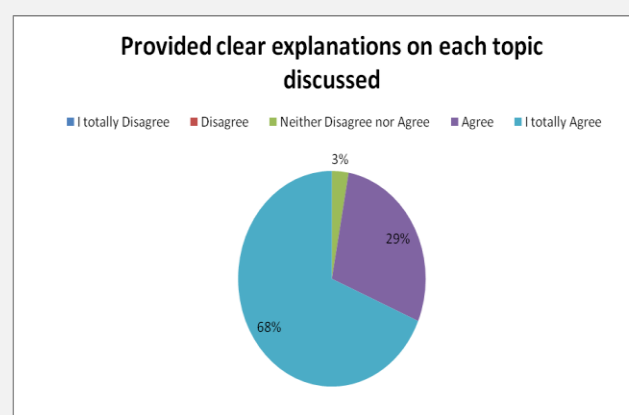
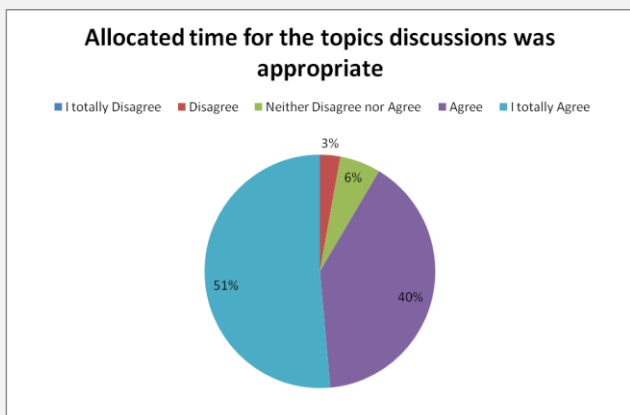
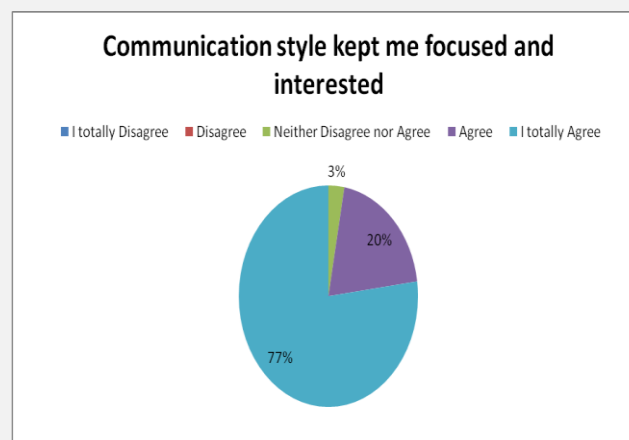
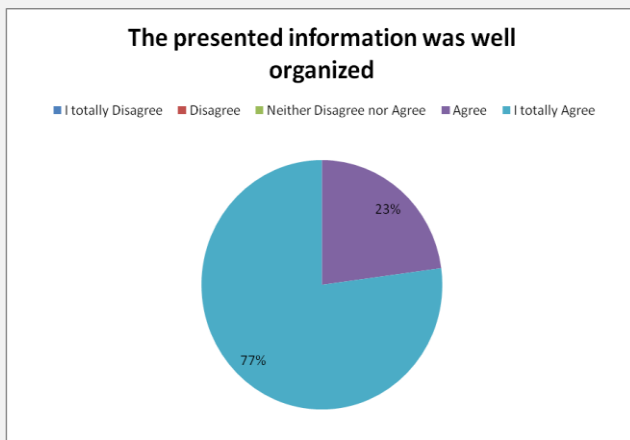


- ✓ Information are very useful and well synthesized
- ✓ Well-structured course
- ✓ I think it would have been helpful if we all received a printed guideline
- ✓ Examples on several types of equipment
- ✓ A deeper analysis of the aspects related to the identification and measurement of material imperfections



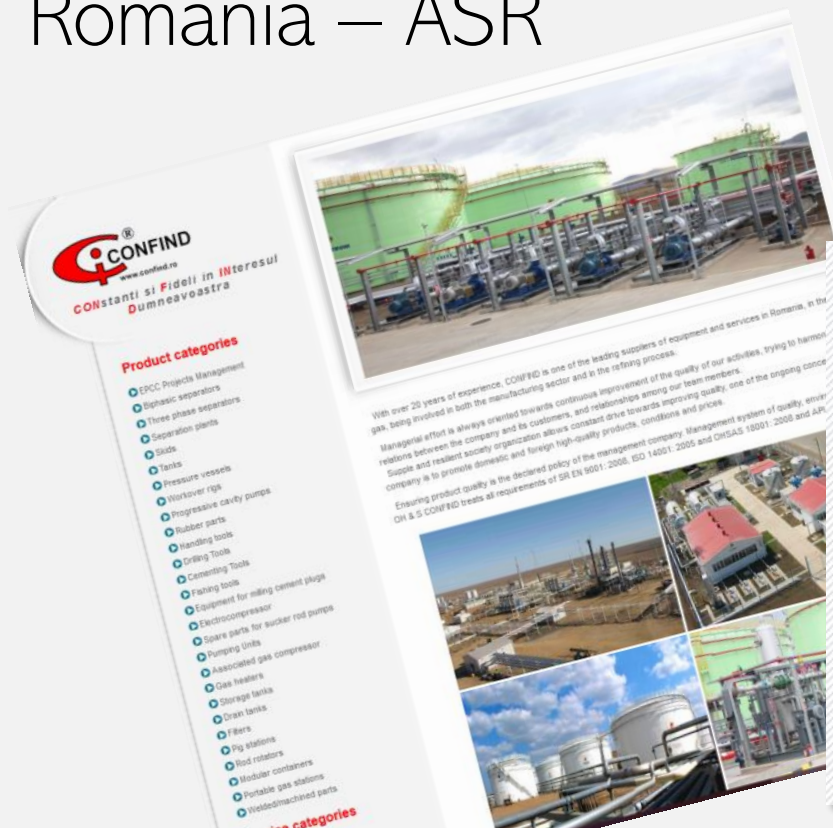
Hands on
Approach
Seminar

Romania – ASR



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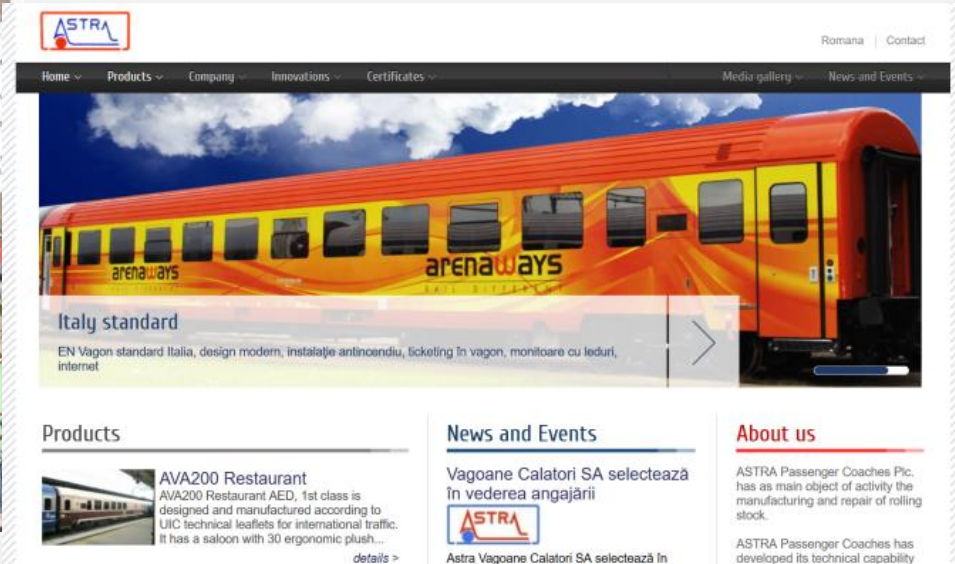


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Product categories

- EPC Projects Management
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- Pressure vessels
- Workover rigs
- Progressive cavity pumps
- Rubber parts
- Handling tools
- Drilling Tools
- Cementing Tools
- Fishing tools
- Equipment for milling cement plugs
- Electrocompressor
- Spare parts for sucker rod pumps
- Pumping Units
- Associated gas compressor
- Gas heaters
- Storage tanks
- Drain tanks
- Filters
- Pig stations
- Rod rotators
- Modular containers
- Portable gas stations
- Welded/machined parts

With over 20 years of experience, CONFIND is one of the leading suppliers of equipment and services in Romania, in the gas, being involved in both the manufacturing sector and in the refining process. Managerial effort is always oriented towards continuous improvement of the quality of our activities, trying to harmonize relations between the company and its customers, and relationships among our team members. Supply and resilient supply organization allows constant drive towards improving quality, one of the ongoing concepts of the company is to promote domestic and foreign high-quality products, conditions and prices. Ensuring product quality is the declared policy of the management company. Management system of quality: ISO 9001:2008 and API Q1 & S CONFIND treats all requirements of SR EN 10011:2008, ISO 14001:2005 and OHSAS 18001:2008 and API



ASTRA

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Italy standard
EN Vagon standard Italia, design modern, instalație antincendiu, bicketing în vagon, monitorare cu leduri, internet

Products
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AVA200 Restaurant AED, 1st class is designed and manufactured according to UIC technical leaflets for international traffic. It has a saloon with 30 ergonomic plush...
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News and Events
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ASTRA
Astra Vagoane Calatori SA selectează în

About us
ASTRA Passenger Coaches Psc. has as main object of activity the manufacturing and repair of rolling stock.
ASTRA Passenger Coaches has developed its technical capability

- ✓ CONFIND – interested by the guidelines for EFSW-O, EFSW-S and EFSW-E
- ✓ S.C. ASTRA PASSENGER COACHES - interested by the guidelines and process



Slovenia – IZV

Market overview

- ✓ Slovenian FSW joining market and possible market for FSW European Qualifications overviews were done.
- ✓ Slovenian market for specific market is small, but IZV, as the FSW Tech partner, is operating in welding education in all the neighborhood countries.
- ✓ IZV as a partner is in Welding Education business for 62 years and intends to remain being the leader in the region in years to come.
- ✓ As it seems IZV will broaden the FSW education market on the West Balkan region.



Slovenia – IZV

Sustainability

- ✓ With the help of 674 International welding engineers certified by IZV and 700 SMES who cooperate yearly with IZV, we can identify target groups also in the upcoming years.
- ✓ Results of the project were partially added to IZVs English Distance learning courses for welding experts.
- ✓ Learning materials in English language which were results of this project, will be very helpful when used in International Blended learning courses.



Portugal – ISQ

*Hands on approach seminar
Sep/Oct 2019*



Level : EFSW - Engineer



2 UC's covered : 1 and 12



6 sessions



Over 50 students



Portugal – ISQ

How will ISQ implement the
European FSW guideline?

- ISQ as ANB and ATB
- Focus in the level *EFSW – E*
- Medium Term: broaden the focus to EFSW – Specialist and EFSW – Operator



Portugal – ISQ

What benefits will ISQ take
from implementing the FSW
guideline?



Open Up a New business area for ISQ in the Welding related sectors

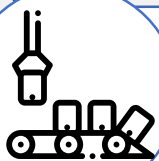


Offer Training Services and Accreditation services

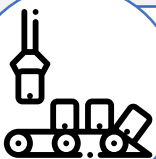


Portugal – ISQ

How will ISQ be contributing to benefit the different stakeholders?



INDUSTRY | direct answer with NEW VET offer – filling existing gap



INDUSTRY | direct answer with NEW European harmonized Qualifications - filling an existing gap



INDIVIDUALS | new qualifications at European Level allowing for new professional opportunities, upskilling, professional mobility, lifelong learning of individuals at European Level



Portugal – ISQ

Future sustainability of the guideline
implementation



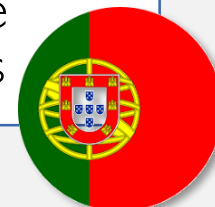
Roadmap for Implementation of the Guideline at National Level



Business Plan for the Implementation of the Guideline at National Level



ISQ's **Training Unit** involvement – responsible at ISQ for the management and implementation of the EWF Qualifications





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