

# **European Welding Inspectors** To enhance training capabilities of VET teachers and trainers and develop digital educational materials to support the teaching and learning in the

Digital Training for

**Newsletter #2, February 2023** 

field of welding inspections.

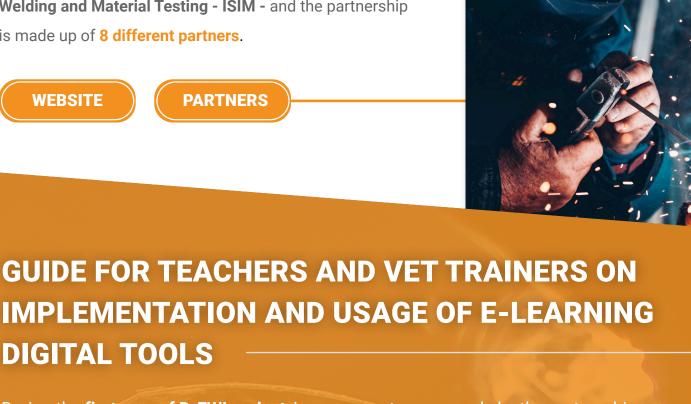
**GET TO KNOW D-EWI PROJECT** 

## Vocational Education and Training. The D-EWI project is coordinated by the Romanian National R&D Institute in

D-EWI "Digital Training for European Welding Inspectors",

is an Erasmus+ project for cooperation in the field of

Welding and Material Testing - ISIM - and the partnership is made up of 8 different partners. **PARTNERS WEBSITE** 



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# During the first year of D-EWI project, improvements were made by the partnership. Educational materials, including a detailed guide, PowerPoint presentations and videos were prepared for the teachers and VET trainers interested about the usage of e-learning digital tools. Besides the future lectures of the Digital Training of the European Welding **Inspector** these educational materials also beneficial for those teachers and trainers who are aimed to develop themselves in e-learning. The prepared educational materials were

summarized in a well organized e-learning platform which will be openly available within the e-learning open courses of the University of Miskolc.

**READ MORE** 

follows:

**DIGITAL TOOLS** 

This Guideline itself was prepared as part of training materials developed for the C1 -Short-term joint staff training programme of the D-EWI project. The developed e-learning training course primarily focuses on using e-learning tools for the purpose of facilitating high end e-learning educational courses to professionals that work in the Welding inspection industry. At the beginning of the project a survey (Training Needs' Analysis) was performed among the potential participants about existing skill gaps in e-learning and learners' expectations. Based on the feedback the overall objective of this training programme was defined as

access to a practice-area, a "sandbox" Moodle course, where they gained personal experiences by testing these tools in teachers' role;

The main focus is offering a pragmatic and practical support for trainers to get

familiar with the selected e-learning platform, the Moodle Learning Management Sys-tem. As the most appropriate methodology for meeting this objective, in most of the time of the 24 hours training programme Moodle tools by presentations and

demon-strations were introduced, showing the process of setting up and application of these tools. During the face-to-face training, (and also beyond it) participants had

In addition, an important aim of the course is to encourage a change of mindset

among the participants, so that they recognise the importance of modernising education beyond the digitalisation and use of ICT tools. Therefore, it was aimed to

support the trainers in their efforts to enrich their pedagogical knowledge and to use a variety of methodological approaches to improve the effectiveness of learning

processes of their students. The introductory lectures on the first day of the training

programme and the first three chapters of this booklet serve these purposes, as a

complementary training material, focusing on more generic aspects and approaches. This mindset-shaping, thought-provoking overview of recent educational developments and trends is complemented by reference lists, a collection of mostly online resources and useful links, a glossary of terms; The **fourth chapter of the prepared Guide** offers a short overview of the Moodle tools, as a starting point for educators to find the direction for the further steps – what tools can be used for different purposes. These tools were introduced in detail in the series of ppt presentations during the 3-day course.

The Guide has the following content:

**Educational Innovation:** 

Educational technology;

Pedagogy/andragogy;

 Accessibility and openness. **Improving effectiveness of learning:**  Generation theory and brain dominance (features of Gen X, Y, Z); • Essential skills and teaching methodology (left/right brain dominance); Motivation and gamification in case of different learning scenarios.

Innovative tools for synchronous and asynchronous on-line learning support:

Collaborative whiteboard applications (MIRO, Mural).

**Quick Guide for Moodle:** 

Roles in Moodle:

Moodle tools and functions.

**Annexes:** 

Short introduction of Moodle;

Video-conferencing (Google Meet, MS Teams, Zoom, comparison of features);

### Glossary; Training Needs Analysis; Excerpts from D-EWI project partners' research report.

Day1 - 4 July, 2022 I have no any experiences with 8:30 - 9:50 || Introduction - Educational Innovation any learning management Report on Training Needs Analysis system Your comment on TNA process and result

L Educational Innovation

10:00 - 11:20 | Defining the learning environment, classroom management (T4/1)

11:30 - 12:20 | Defining the learning environment, classroom management (T4/2)

by Noémi Hajdú, University of Miskolc, HU

It is hoped that **reading** this Guide will be inspiring to the **course participants** to not only teach up-to-date content, but also to pay special attention to the use of modern

pedagogical **methods** and **tools** in their teaching activities.

functions.

• I used Moodle as a learner

I use versatile functions in

Moodle system as a teacher.

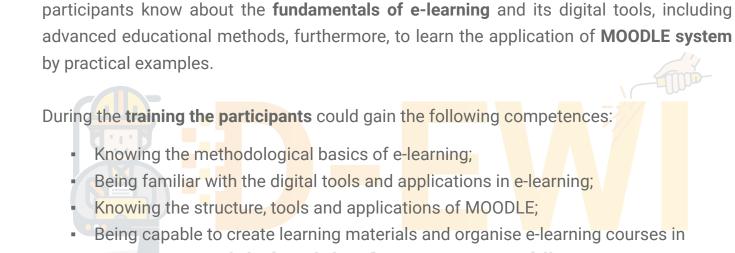
 I use Moodle as a teacher, but only for some very simple

**UNIVERSITY OF MISKOLC (JULY 2022)** Between 4-6th of July 2022 the University of Miskolc Institute of Material Science and **Technology** hosted a short-term joint staff training about digital e-learning methods (C1) in Hun-gary. The e-learning specialists of the university and specialist of Brandware Media

organized a 24-hour training for the thirteen participants from Hungary, Italy, Portugal,

Roma-nia and Spain. The aim of the training, elaborated within the project, was to get the

**D-EWI | SHORT-TERM JOINT STAFF TRAINING EVENT AT** 



Knowing the methodological basics of e-learning; Being familiar with the digital tools and applications in e-learning; Knowing the structure, tools and applications of MOODLE;

University of Miskolc Institute of Material Science and Technology

Being capable to create learning materials and organise e-learning courses in their own field using digital e-learning tools opean Welding Inspectors

The course structure and content were worked out by the support of the e-learning

specialists of the University of Miskolc, Dr. Mária Kocsis Baán retired associate professor

and Dr. Noémi Hajdú associate professor. During the training the e-learning specialists used the **PowerPoint presentations** prepared by the consortium, furthermore they keep the attention of the participants by interactive tasks within the MOODLE system and innovative

The colleague of Brandware, Giorghian Dinu, take the **responsibility** to introduce the video

conference and whiteboard applications to the participants, including tools and experiences in synchronous and asyncronous collaborative learning. A very beneficial part of the training was when the trainers made an overview about the characteristics of

different learner generations (e.g. X, Y and Z generations). The 3-day course structure was

**DAY 1:** 

Defining the learning environment, classroom management; Organisation and course management; Communication via the e-learning framework.

online educational solutions.

the following:



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Related to the **course topics** all of the necessary e-learning tools of MOODLE have been introduced to the participants. Based on the course the **consortium members** are ready to work on the advanced training materials related by the utilization of e-learning methods to the planned digital training on European Welding Inspector (EWI). Besides the training it was also a good occasion to get familiar with the professional activities of the Institute of

Material Science and Technology. On behalf of the hosting organization Dr. Marcell Gáspár

associate professor gave a detailed overview about the institution and its professional

fields related to welding, metal forming, heat and surface treatment, and tribology.

Therefore, the participants had the chance to visit the welding and materials testing

At the end of the course an online exam was organized to the participants via MOODLE, which was successfully passed by all participants, so they could get the certificate issued

by the University of Miskolc. In order to get the right for issuing certificate the University of Miskolc registered the training at the national authority with the following official name: Methodology and application of digital e-learning tools in technical higher education. After

the final exam the participants also evaluated the course structure, educational materials

and trainer's activity, which resulted general positive feedback for the whole course.

laboratory of the university.

- Based on some beneficial comments the training and its materials were further version. Miskolc within the open courses.
- **WEBSITE D-EWI PROJECT PARTNERS**

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