

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 field of welding inspections.

Digital Training for

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is an Erasmus+ project for cooperation in the field of Vocational Education and Training. The D-EWI project is

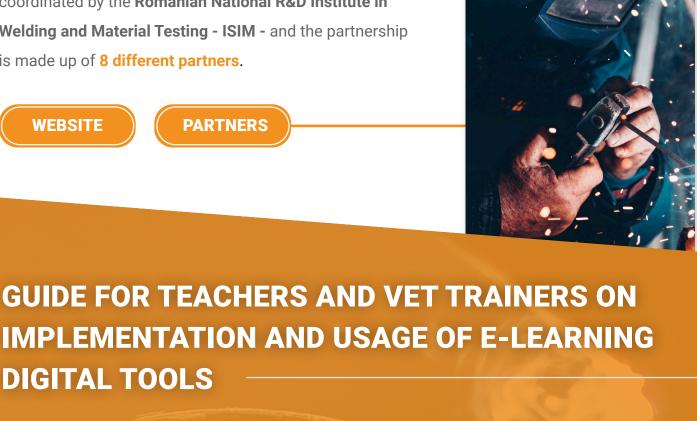
D-EWI "Digital Training for European Welding Inspectors",

coordinated by the Romanian National R&D Institute in

GET TO KNOW D-EWI PROJECT

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

the e-learning open courses of the University of Miskolc.



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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

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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 follows:

of these tools. During the face-to-face training, (and also beyond it) participants had 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 System. 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

demonstrations were introduced, showing the process of setting up and application

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.
- Pedagogy/andragogy <</p> >> 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: >> Video-conferencing (Google Meet, MS Teams, Zoom, comparison of features) <<

>> Collaborative whiteboard applications (MIRO, Mural) <<

Quick Guide for Moodle: >> Short introduction of Moodle <<

> **Annexes:** >> Glossary <<

>> Training Needs Analysis <<

>> Excerpts from D-EWI project partners' research report <<

The Guide has the following content:

Educational Innovation:

>> Educational technology <<

>> Roles in Moodle << >> Moodle tools and functions <<

pedagogical **methods** and **tools** in their teaching activities. Day1 - 4 July, 2022

8:30 - 9:50 || Introduction - 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)

Report on Training Needs Analysis

L Educational Innovation

Your comment on TNA process and result

by Noémi Hajdú, University of Miskolc, HU

I have no any experiences with

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

any learning management

• I used Moodle as a learner

I use versatile functions in

Moodle system as a teacher.

system

functions.

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

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 Hungary. The e-learning specialists of the university and specialist of Brandware Media

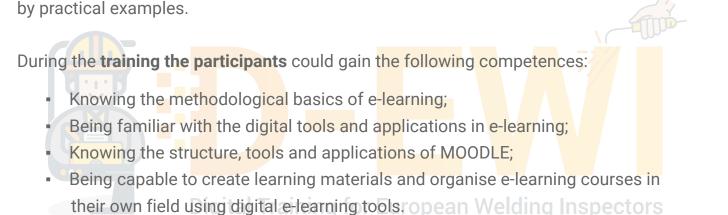
organized a 24-hour training for the thirteen participants from Hungary, Italy, Portugal, Romania and Spain. The aim of the training, elaborated within the project, was to get the

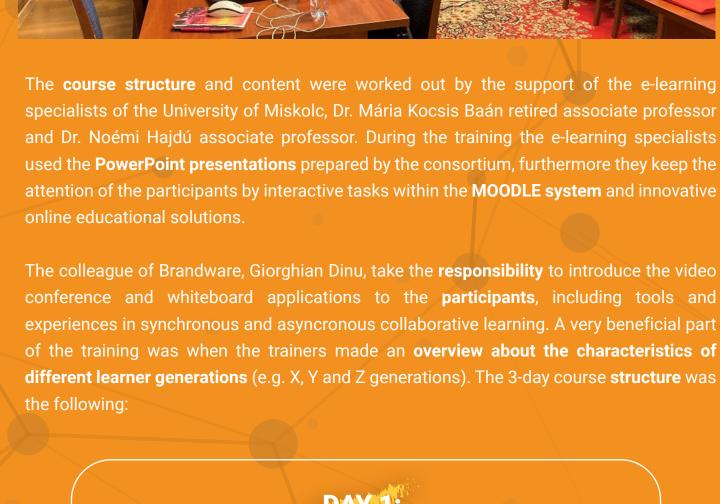
participants know about the fundamentals of e-learning and its digital tools, including advanced educational methods, furthermore, to learn the application of **MOODLE system**

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

During the training the participants could gain the following competences: 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; Being capable to create learning materials and organise e-learning courses in their own field using digital e-learning tools opean Welding Inspectors University of Miskolc Institute of Material

Science and Technology





>> Monitoring attendance and participation << Monitoring and assessment of student progress Educational Innovation: flipped classroom on openness and accessibility >> Evaluation of the course <<

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

version.

Based on some beneficial comments the

training and its materials were further

developed in July before getting their final

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



D-EWI PROJECT PARTNERS

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DAY 1: Defining the learning environment, classroom management Organisation and course management < Communication via the e-learning framework **DAY 2:** >> Setting up student groups and define tasks < Assessment by quiz/defining grades and feedback to students << Active learning/delivery of essays and feedback

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 laboratory of the university. 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

After the daily trainings some common cultural activities were organized therefore the participants could visit the sights of Miskolc including the city centre and the Cave Spa. **WEBSITE**

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Hopefully the developed training with its training materials will be useful for the trainers of the **European Welding Inspectors** trainings and also for other lecturers who are aimed to train themselves about e-learning. After the project the training will be publicly available at the **e-learning platform** of the University of Miskolc within the open courses.



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