

PR4 Summary – Repository of Re-usable Digital Microlearning Content for VET

The aim of R4 was to design and develop a web-based application, an online repository of vocational micro-learning contents, manageable by teachers inside or outside the VET schools. The repository of reusable digital micro-learning content is of great benefit in vocational education and training for several reasons: it enables the efficiency of teaching and time saving of teachers as they can reuse digital microlearning content already created and verified. So, teachers and trainers do not need to create a new content from scratch each time, saving time and resources. In addition, the use of a repository contributes to the standardisation of the learning content.

Requirements for the Online Repository (MLC)

In VET, it is particularly important that learning content is standardised and of high quality to meet certain skills and standards. The repository was also required to enable flexibility and adaptability, so the learning content can be adapted and expanded as required. New findings, changes in the requirements of the professional world or specific adaptations for different target groups should be implemented quickly.

The repository also should provide scalability and accessibility as learning content is easily delivered digitally and utilised effectively for a larger number of learners.

Digital Micro-Learning Contents (MLCs)

The VETPROFIT repository offers a wide range of digital learning content such as short videos, interactive exercises, infographics, simulations and podcasts. This content is designed to teach specific vocational skills, knowledge and competences. Structured organisation by topic, occupational field, learning objective and competence area means that the repository is easy to navigate and search. The content is reusable and can be used flexibly in different learning contexts, which promotes efficiency in the creation of learning materials.

Particular attention is paid to quality control, including content accuracy, timeliness, usability and accessibility of materials. Each piece of learning content is provided with metadata and tagged to describe its characteristics, objectives and target audiences, making it easier to search and identify relevant content. The repository can be seamlessly integrated with a learning management platform (LMS) or other educational technology systems to facilitate access and collect usage data for analysis and evaluation. The web platform developed for finding digital micro-learning content is highly extendable.

Features supporting finding and reusing micro-learning contents:

- *clear search categories in a dropdown menu for language, subject, age group of students, industrial sector, type of content, learning objectives.*
- *self-registration form and user profile*
- *properly structured webform to upload content*
- *a clear user guide (How does it work?)*
- *upload content (own or published as an OER) in pre-defined formats*

The graphical design of the MLC site was in line with the project image elements and reflects its purpose. User experience features ensure easy navigation and profile management as well as simple handling of

functions. The first set of micro-learning contents uploaded were those developed or collected by VET teachers completing the course in PR2.

Publishing and Testing the MLC platform

The MLC platform was tested for its operation and possible bugs first by the partners and then by a number of VET teachers from each partner country. Test users: 12 from Germany, 3 from Italy and 10 from Hungary were asked to try every function the website allows and assessed its quality and useability by responding an online questionnaire developed by DEULA, the leader of this work package. Based on the feedback received, the online repository of micro-learning contents was reviewed and made open for the public.

A key benefit of the MLC repository developed in the VETPROFIT project is the collaboration of five partner educational institutions that pool their expertise and resources to create and share high-quality learning content. This co-operation creates a comprehensive and up-to-date repository that improves the efficiency and quality of vocational education and training.

To access the repository, use this LINK: <https://mlc.itstudy.hu/en> or [/hu, /it, /en.](https://mlc.itstudy.hu/it/)

Project basics

Title: Multidisciplinary, Project-based Digital Learning Content for VET

Acronym: VETPROFIT

Project ID: 2021-1-HU01-KA220-VET-000025350

Partner countries: Germany, Italy, Hungary

Coordinator: ITStudy Hungary Ltd.

Duration: 01 November 2021 – 31 October 2024.

Target groups:

VET- schools' leadership

VET teachers/trainers

Companies (Agriculture and IT sectors)

Beneficiaries:

VET students

Employers

Aim of the project

The aim of the project is to reflect the needs of the labour market in vocational education and training, to prepare teachers to work with companies to develop project tasks for students and future employees to solve real problems proposed by them. To achieve this objective, the partnership:

Objectives

- *review the curriculum, learning materials and teaching methods used in the initial training of IT and Agricultural sectors in the partner countries;*
- *train VET teachers of these sectors about the project method, related digital tools, innovative assessment practices and digital content creation;*

- *assign real-life project tasks for VET students, in close collaboration of teachers and labor market representatives;*
- *create a repository of project-based, re-usable, high-quality, motivating digital learning contents with an interdisciplinary approach;*
- *prepare students for successful project implementation by designing and delivering mini-courses for them;*
- *create a model to be published as a guide for teachers of other VET institutes.*

Partners

iTStudy Hungary IT Education and Research Centre. Hungary

DEULA - Nienburg GmbH, Germany

Fondazione ITS – JobsAcademy, Italy

Association of Hungarian Horticultural Vocational Training Institutions, Hungary

Premontre Vocational High School, Technical School and College, Hungary

Discovery Center Nonprofit Ltd., Hungary