Projects and Products Portal for Leonardo da Vinci

Die Förderung der Projekt-& Practice Based Learning by Collaborative Learning Technologies in der beruflichen Erstausbildung für Mechanische Fertigung unterstützt

2010-1-ES1-LEO05-21046

http://www.adam-europe.eu/adam/project/view.htm?prj=8405

Projektinformationen

Titel:	Die Förderung der Projekt-& Practice Based Learning by Collaborative Learning Technologies in der beruflichen Erstausbildung für Mechanische Fertigung unterstützt
Projektnummer:	2010-1-ES1-LEO05-21046
Jahr:	2010
Projekttyp:	Innovationstransfer
Status:	abgeschlossen
Land:	ES-Spanien
Marketing Text:	kollaboratives Arbeiten
Zusammenfassung:	PBLinVET has developed, experimented and validated a pedagogical model to implement Project & Practice Based Learning didactical methods supported by collaborative e-learning tools in VET Mechanical Manufacturing.

Beschreibung:

Changes in companies related the work organization, ICT and innovation, have motivated in the labour market an increasing demand of other competencies added to those of technical character - team working, communication, problems resolution, self-learning, time self management or creativity. To answer to these company's needs, VET Schools have innovated the educational approach. Experiences at technical university level have demonstrated that Project and Practice-based-Learning (PjBL&PBL) methods and e-collaborative training IT are suitable to provide these interdisciplinary competencies, with the involvement of industries and the active participation of the students in learning processes.

PBLinVET has developed, experimented and validated a pedagogical model to implement Project & Practice Based Learning didactical methods supported by collaborative e-learning tools in VET Mechanical Manufacturing. The model has been built by adapting the technological collaborative e-learning environment Knowledge Practices Environment (KPE) developed in KP-Lab project (FP6 IST/TE). The final products forming this pedagogical model have been:
-A collaborative work on line software, adapted from KPE, to facilitate VET students the development of their assigned projects during their practices stages on industrial enterprises, on line supported and monitorized by their trainers and tutors of the companies.
-A " PjBL Based e-Learning Toolkit" with didactical contents , resources , tools, assessment procedures and user's manual.
-A "Pedagogical Guide to Implement e-Collaborative Project and Practice-based-Learning in Initial Vocational Training Programs"
-A multimedia DVD that collects all results and documentation created in the project and the different phases that have been carried out in the pilot experience

This model has been tested in 4 pilot implementation experiences, in 3 VET Institutes.

A Virtual PBL/PjBL Community based on 2.0 Web has been launched as a dissemination action and as instrument to support a future exploitation. A website, a project brochure an a presentation of results has been developed too.

The consortium has been integrated by 3 Secondary Vocational Training Schools who give the context and the field of application of the transference, 1 University who have large research expertise on Collaborative e-learning tools which have been the promoter of KPE-Lab, 1 University Research Centre in vocational education and training (VET) specialized in educational ICT and 1 Consultancy expert on ICT and on the management and evaluation of related transnational projects, EURONET-PBL's promoter.

The foreseen impacts have been :
-the innovation of initial vocational training to enable students to acquire soft competencies to attend the enterprise's requirements and to increase their

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employability
- the increase of the involvement of industries in the training of VET students and a closer approach between learning and working experience.

Themen:
*** IKT
*** Hochschulbildung
*** Fernlehre
*** Unternehmen, KMU
** Arbeitsmarkt
** Berufsorientierung und -beratung
* Nutzung und Verbreitung von Ergebnissen
* Qualität
* Weiterbildung

Sektoren:
*** Verarbeitendes Gewerbe/Herstellung von Waren
*** Erziehung und Unterricht
** Erbringung von Freiberuflichen, Wissenschaftlichen und Technischen Dienstleistungen

Produkt Typen:
Homepage
Lehrmaterial
Evaluierungsmethoden
DVD

Produktinformation:
KPE-website
COOP-PBL- website
DIVULGATIVE RESULTS- dvd
TOOLKIT- teachig material

Projektwebseite: http://coop-pbl.com/

Vertragnehmer

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Partner 2

Name: Helsinki Metropolia University of Applied Sciences
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Partner 3

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Land/Region: Észak-Magyarország
Land: HU-Ungarn
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Partner 4

Name: Universität Bremen, Institut Technik und Bildung
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Land: DE-Deutschland
Organisationstyp: andere
Homepage: http://www.itb.uni-bremen.de

Produkte

1 COOP-PBLinVET

2 TOOLKIT

3 DIVULGATIVE RESULTS

4 KPE

5 EVALUATION

Produkt 'COOP-PBLinVET'

Titel:	COOP-PBLinVET
Produkttyp:	Homepage
Marketing Text:	COOP-PBL
Beschreibung:	The website was designed to report on project progress and to display all the results
Zielgruppe:	Students and future students in VET, teacher in VET and education all staff. Companies and amninistrations.
Resultat:	Corporate WEb development and updating
Anwendungsbereich:	Community WEB 2.0 zone with information , resources and communication/exchange tools, oriented to increase the interest and awareness to use PBL/PJL methods and collaborative learning tools among VET centres and trainer.
Homepage:	http://coop-pbl.com/
Produktsprachen:	Englisch Deutsch Ungarisch Spanisch

Produkt 'TOOLKIT'

Titel:	TOOLKIT
Produkttyp:	Lehrmaterial
Marketing Text:	Toolkit
Beschreibung:	This was a presentation to find all the necessary tools in order to implement the PBL online in the development of a project.
Zielgruppe:	Students and teachers
Resultat:	The developed didactical resources and tools are : Forms Examples Case studies Didactical units Links... Too the assement criteria ,procedures and forms, etc.
Anwendungsbereich:	It could be used to facilitate the trainees to develop their projects during the practices in the enterprises, guided by trainers and responsibles or the companies. This work of didactical resources development were oriented to be supported in KPE, used as the collaborative learning technology
Homepage:	
Produktsprachen:	Deutsch Ungarisch Spanisch Englisch

Produkt 'DIVULGATIVE RESULTS'

Titel: DIVULGATIVE RESULTS

Produkttyp: DVD

Marketing Text: Flash Presentation

Beschreibung: It was a flash mode, to see and download all the necessary.

Zielgruppe: Students in VET, teacher and companies.

Resultat: 1.- “Comparative analysis of the educational contexts of the transfer’s receivers and the specific requirements to implement PjBL /PBL and the KPE.”

2. “Conclusions of transfer possibilities and the framework of this transfer”

3.- Brochure (Introduction and results)

Anwendungsbereich: Exchange of methodological experiences; Joint analysis of the products within the partnership organisation and reflection about the orientation, guidelines and conditions of the Transfer taking into account the specificities of the target audience and the educational framework of the Vocational Training Programs in Mechanical Manufacturing branch in each receiver entity. The participants analysed the transferability of the products and lessons learned by their experience.

The second join report described the educational contexts of each transfers receiver VET Centre – formative curricula (related to Mechanical Manufacturing), specificities of each centre, characteristics of target of the project in each one (trainees, enterprises, etc.), formative uses, needs – and the specific requirements that new education product should accomplish in order to be adapted to each centre.

3.- Brochure :to publicize the project and report it within the environment of each partner, for editing a divulgative brochure about the results, which included a presentation of the developed products and pilot implementation experiences.

Homepage:

Produktsprachen: Spanisch
Ungarisch
Englisch
Deutsch

Produkt 'KPE'

Titel:	KPE
Produkttyp:	Homepage
Marketing Text:	KPE
Beschreibung:	KPE was designed to support collaborative knowledge creation processes by providing a shared knowledge space with tools for developing, commenting, and managing knowledge artefacts, as well as organizing knowledge creation processes and social collaboration around them.
Zielgruppe:	Sdudents, teacher and trainers.
Resultat:	1.- Adapted KPE 2.- Trainer´s Guide 3.- User´s Manual
Anwendungsbereich:	Facilitate VET educational centres and trainers a tool to be used in collaborative learning technologies (in this case KPE) to improve the training methods and results
Homepage:	http://mielikki.mobile.metropolia.fi/shared-space-fb4
Produktsprachen:	Ungarisch Spanisch Englisch Deutsch

Produkt 'EVALUATION'

Titel:	EVALUATION
Produkttyp:	Evaluierungsmethoden
Marketing Text:	carrying out 3 pilot experiences for testing the applicability of the technology and the developed pedagogical models.
Beschreibung:	Monitoring and evaluating the experimental implementation, about the utility for improving the current training and for providing the new competencies to the trainees
Zielgruppe:	Teacher and trainers
Resultat:	1.- Evaluation methodology of pilot experiences 2.- Report od results of experimental implementation 3. Evaluation of the sustainability od the implementation of PBL/PJL based on e-learning cooperative learning in VET
Anwendungsbereich:	Pilot the experiences
Homepage:	
Produktsprachen:	Englisch