Projects and Products Portal for Leonardo da Vinci

Innovative Peer Learning Assessment System for Evaluation of trainers and Quality VET professional programs

2012-1-NO1-LEO05-04776

http://www.adam-europe.eu/adam/project/view.htm?prj=10325

Project Information

Title: Innovative Peer Learning Assessment System for Evaluation of trainers and Quality VET professional programs

Project Number: 2012-1-NO1-LEO05-04776

Year: 2012

Project Type: Transfer of Innovation

Status: granted

Country: NO-Norway

Marketing Text: Kirkpatricks`s learning evaluation model has been used for training of professionals for nearly 50 years without providing new innovations on the technology field.

iQVET provides major innovation to Kirpatrick`s learning innovation model by introducing assessment for learning and use of students own mobile devices.

The four levels of Kirkpatrick's evaluation model essentially measure:

reaction of student - what they thought and felt about the training
learning - the resulting increase in knowledge or capability
behavior - extent of behavior and capability improvement and implementation/application
results - the effects on the business or environment resulting from the trainee's performance

These 4 levels are recommended for full and meaningful evaluation of learning in organizations. iQVET provides a faster and cheaper solution to this evaluation process, while at the same time adding new features by using mobile technology.

The project has constructed the evaluation and survey tool Eval. Eval is available from www.one2act.no.

Summary: REASON
VET teachers are currently unable to judge and assess on the fly professionals trainer`s reproduction, demonstration and performance of learning. During short VET courses addressing the World of Work, instructors can't answer questions like
- How successful is/was my teaching?
- How well do/did the students learn the subject taught?
- How much do/did the students learn of the subject taught?

In class communication, interaction and collaboration processes that may enhance effective peer learning processes, where students learn from their peers, are difficult to measure by use of existing ICT technologies

KA3 Done-IT (11-12) project: The brand new Peer Learning Assessment Service (PeLE) system for Smartphones, PAD, PC and Mac gives the teacher a new tool, allowing him/her to either give verification or elaborative feedback to individual students or groups of students immediately after a test. When they still remember the questions in the test, students will learn why the answers are correct or incorrect.Thus, mobile technology provides new evaluation, assessment and testing criteria within education and training

AIMS
Provide instant evaluation in industry oriented short, intense 2-3 days VET professionals courses, by adapting, testing and validating the new online service "PeLe Professional".
Extend Kirkpatrick`s learning outcome evaluation model by using modern, easy to use, cheap mobile response technology, to include Assessment for Learning in competence based systems

CONSORTIUM
The consortium has a strong industrial presence with ties to VET providers, mobile learning and mobile response system technologies (HCR) and manufacturing industry

Project Information

(DOM, HiST, CCI, UTH) leading to identification of inadequacies in current training and evaluation systems and standards for effective instructor training delivery. The partnership has complementary expertise and tasks. HiST, HCR, CCI and UTH have cooperated successfully previously. HCR personnel were key development partners in the KA3 ICT mobile technology EduMecca (09-10) and Done-IT projects

OUTCOME
An innovative, extended Kirkpatrick`s Peer Learning Evaluation Method, for evaluation of trainers and Quality VET professional programs, provides:
- reaction evaluation: measure trainers pre-knowledge and how they thought and felt about the training and learning experience
- learning evaluation: measure the increase in knowledge or capability before and during the course, in order to provide corrective actions at the end of the course
- behavior evaluation: measure the extent of applied learning back on the job (implementation of knowledge)
- result evaluation: investigate the effects on the business or environment resulting from the trainee's performance

IMPACT
VET organizations start using Assessment for Learning and the extended Kirkpatrick`s learning evaluation model

Description: Methodology of Kirkpatrick for evaluation
An innovative, extended Kirkpatrick`s Peer Learning Evaluation Method, for evaluation of trainers and Quality VET professional programs, by used of the extended PELE tool.
It is going to provide:

Reaction evaluation: measure trainers pre-knowledge and how they thought and felt about the training and learning experience
Learning evaluation: measure the increase in knowledge or capability before and during the course, in order to provide corrective actions at the end of the course
Behaviour evaluation: measure the extent of applied learning back on the job (implementation of knowledge)
Result evaluation: investigate the effects on the business or environment resulting from the trainee's performance, and try to assess and validate the Return of Investment in VET programs by using the extended Kirkpatrick`s evaluation model
PELE Professional is going be used to measure pre-knowledge just before the course starts, and these data will be collated with immediate feedback from tests offered towards the end of the course. The data gathered before and after the couse are then merged into an interactive learning activity. The learning approach targets short, intense training courses and applies the pedagogical method to business, economy and agricultural courses. The new learning and evaluation process is going to include four disruptive evaluation-learning activities: pretests, learning, posttests and comparison.

Themes:
*** Quality
*** Lifelong learning
*** Enterprise, SME
*** Continuous training
** Higher education
** Equal opportunities
* ICT
* Open and distance learning
* Initial training

Sectors:
*** Professional, Scientific and Technical Activities
*** Education
** Financial and Insurance Activities
** Information and Communication

Product Types: evaluation methods
Film

Project Information

material for open learning
modules
others
teaching material
website

Product information: The new PELE Proffesional tool is going to provide:

Pretest of attitude and behaviour - to improve the learning phase
Pretest of knowledge before the learning starts - to improve the learning phase
Evaluate satisfaction during learning phase
Perform posttest of knowledge during learning phase
Some time after finishing learning, provide posttest in attitude and behaviour and use these results to compare and improve the effect of training for participants and companies.
Finally, the project will investiagte if Kirkpatricks evaluation method may be adapted and applied for use in higher education courses.

For instance, use of mobile technology dont require any reconstructon of classrooms or other infrastructure at the campus, due to the portabillity and availabillity of handheld tools (smartphones, tabletts and laptops) among the students. Due to this, it is possible to apply this evaluation method in any classroom that is connected to the WI-FI network, thus reducing the costs for carrying out advanced and improved evaluations in large scale training environments with thousands of students.

Projecthomepage: http://histproject.no/node/684

Project Contractor

Name:	Høgskolen i Sør-Trøndelag
City:	Trondheim
Country/Region:	Trondelag
Country:	NO-Norway
Organization Type:	university/Fachhochschule/academy
Homepage:	http://www.hist.no

Contact Person

Name:	Arild Smolan
Address:	E. C. Dahls gt. 2
City:	Trondheim
Country:	NO-Norway
Telephone:	004773559332
Fax:	
E-mail:	Arild.Smolan@hist.no
Homepage:	

Coordinator

Name:	HiST Contract Research
City:	Trondheim
Country/Region:	Trondelag
Country:	NO-Norway
Organization Type:	research institution
Homepage:	http://hcr.as

Contact Person

Name:	Dr. John B. Stav
Address:	
City:	
Country:	NO-Norway
Telephone:	+4795293101
Fax:	
E-mail:	john.b.stav@hist.no
Homepage:	

Partner

Partner 1

Name: University of Thessaly
City: Volos
Country/Region: Thessalia
Country: EL-Greece
Organization Type: others
Homepage: http://www.uth.gr

Partner 2

Name: Dom Szkole i Doradztwa
City: Kraków
Country/Region: Lodzkie
Country: PL-Poland
Organization Type: continuing training institution
Homepage: http://www.domszkolen.com

Partner 3

Name: HiST Contract Research
City: Trondheim
Country/Region: Trondelag
Country: NO-Norway
Organization Type: others
Homepage: http://www.hcr.as

Partner 4

Name: CHAMBER OF COMMERCE AND INDUSTRY OF MURES COUNTY
City: TIRGU MURES
Country/Region: Centru
Country: RO-Romania
Organization Type: chamber
Homepage: http://www.cciams.ro

Products

1 Peer Learning Assessment Guidelines

2 4 steps evaluation methodology

3 User manuals for the teacher and student clients

4 Evaluation strategy testing and validation report

5 Eval One2Act leaflet - Evaluate in 1-2-3

6 Eval poster

7 Eval One2Act software user guidelines

8 Kirkpatrick`s 4 steps evaluation methodology,

9 Example of a 4 steps methodology

10 The Eval One2Act software service

11 Evaluation report from testing services by external VET users

12 External evaluation report of the iQVet projects services and methods

13 Eval One2Act rollup

14 One2act rollup with SRS, PeLe, Eval and iLike

15 Evaluate One2Act A4 information sheet

16 Exploitation strategy guideline

Product 'Peer Learning Assessment Guidelines'

Title:	Peer Learning Assessment Guidelines
Product Type:	website
Marketing Text:	Guidelines that describe how to start suing the Peer Learning Assessment System (PeLe)
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	http://histproject.no/node/882
Product Languages:	English

Product '4 steps evaluation methodology'

Title:	4 steps evaluation methodology
Product Type:	evaluation methods
Marketing Text:	Description of the 4 points Kirkpatrick evaluation model by use of modern mobile technology and the new Eval tool. It includes a case study.
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	http://histproject.no/node/699
Product Languages:	English

Product 'User manuals for the teacher and student clients'

Title:	User manuals for the teacher and student clients
Product Type:	teaching material
Marketing Text:	The manuals demonstrate howto use PeLe teacher client, the PeLe student client, how to start the PeLe student client, and a PP for training of personnel.
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	http://histproject.no/node/699
Product Languages:	English

Product 'Evaluation strategy testing and validation report'

Title:	Evaluation strategy testing and validation report
Product Type:	evaluation methods
Marketing Text:	Describes how to carry out evaluations within the frame of the iQVet project (WP5).
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	http://histproject.no/node/699
Product Languages:	English

Product 'Eval One2Act leaflet - Evaluate in 1-2-3'

Title: Eval One2Act leaflet - Evaluate in 1-2-3

Product Type: others

Marketing Text: Eval is a voting system for running sets of questions, letting students use their own computers or handheld devices such as smartphones or tablets as immediate repsonse tools.

The students answer evaluation questionnaires set by the teacher, who gets an immediate overview of the students` opinion of the topic covered. The results are immediately displayed on a screen or board. The results be used as a stepping stone to give students a sense of ownership of the course, since each student's active contributions may immediately influence the learning methods. Eval helps the teacher to resolve misunderstandings and to focus resources towards eliminating misconceptions experienced during the training session.

Description: This is the revised leaflet, that was developed in year two of the project. It is the final version.

Target group:

Result:

Area of application:

Homepage: http://histproject.no/sites/histproject.no/files/one2act_eval_v2(1).pdf

Product Languages: English

Product 'Eval poster'

Title:	Eval poster
Product Type:	others
Marketing Text:	Poster describing the Eval Methodology, consisting of the Pre-evaluation, Evaluation and Post-evaluatuon phases
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	http://histproject.no/node/699
Product Languages:	English

Product 'Eval One2Act software user guidelines'

Title:	Eval One2Act software user guidelines
Product Type:	others
Marketing Text:	Guideliens that demonstrate how to to use Eval, an evaluation tool that may provide evaluations or surveys.
Description:	The Eval system developed within the frame of the IQVET project aims to provide the teachers and the students with a set of services that enable them to: Provide instant evaluation in industry oriented short, intense 2-3 days VET professionals courses, by adapting, testing and validating the new online service that are based up on the Peer Learning Assesment System (PeLe) developed in the KA3-ICT Done-IT project. The underlying technology for the services is based in part on the PeLe technology. The system was developed using an iterative prototyping process. In the design process have been involved the main system stakeholders: teachers and students. The very context of use dictates that a special emphasis must be placed on the human computer interaction aspects. The educational activity must be supported in a transparent and usable way
Target group:	
Result:	
Area of application:	
Homepage:	http://histproject.no/sites/histproject.no/files/EVAL_Technical_implementation_guide.pdf
Product Languages:	English

Product 'Kirkpatrick`s 4 steps evaluation methodology,'

Title:	Kirkpatrick`s 4 steps evaluation methodology,
Product Type:	teaching material
Marketing Text:	
Description:	Why response systems help developing a new evaluation methodology in education and training processes.
Target group:	
Result:	
Area of application:	
Homepage:	http://histproject.no/sites/histproject.no/files/iQvet_4_steps_methodology_final.pdf
Product Languages:	English

Product 'Example of a 4 steps methodology'

Title:	Example of a 4 steps methodology
Product Type:	
Marketing Text:	
Description:	The document is presenting the case study based on the Project titled Sales Competency Academy which was realized in 2009--2010. Within the project frame the following business competency were developed: negotiation, market, management, business presentation and negotiation as well as the selfmotivation, planning and work organization, stress management.
Target group:	
Result:	
Area of application:	
Homepage:	http://histproject.no/sites/histproject.no/files/4steps_case_study_final_english.pdf
Product Languages:	English

Product 'The Eval One2Act software service'

Title:	The Eval One2Act software service
Product Type:	others
Marketing Text:	Quick Evaluation System Evaluate in 1-2-3! Run evaluations and surveys on students own handheld devices.
Description:	Eval is a voting system for many questions that turns students' own computers and handheld devices such as smartphones or tablets into immediate response tools. The students answer evaluation questionnaires set by the teacher, who gets an immediate overview of the students` opinion of the topic covered. The results are immediately displayed on a screen or board. This and can be used as a springboard for letting students immediately get an ownership to the course, since each students active contribution may immediately affect the learning methods. Eval helps the teacher to solve misunderstandings and focus their resources towards removing misconceptions experienced during the training session. Interact with all the students, including those who are usually too modest or non-responsive to speak up
Target group:	
Result:	
Area of application:	
Homepage:	https://www.one2act.no/
Product Languages:	English

Product 'Evaluation report from testing services by external VET users'

Title:	Evaluation report from testing services by external VET users
Product Type:	evaluation methods
Marketing Text:	Evaluation results obtained when using Eval in external classes in Romania, Greece, Poland and Norway.
Description:	Instructors can't answer questions like - How successful is/was my teaching? - How well do/did the students learn the subject taught? - How much do/did the students learn of the subject taught? The iQVET project has developed a new Evaluation tool to be used in short 2-3 days courses. The tool let the teacher and instructor: • provide instant evaluation in industry oriented short, intense 2-3 days VET professionals courses, by adapting, testing and validating the new online service "PeLe Professional". • extend Kirkpatrick`s learning outcome evaluation model by using modern, easy to use, cheap mobile response technology, to include Assessment for Learning in competence based systems
Target group:	
Result:	
Area of application:	
Homepage:	Evaluation report from external testing of services and methods
Product Languages:	English

Product 'External evaluation report of the iQVet projects services and methods'

Title:	External evaluation report of the iQVet projects services and methods
Product Type:	others
Marketing Text:	iQVET introduces a great opportunity for ensuring that course organization and course objectives are in-line with existing knowledge, required knowledge, and job market needs and that there is a strong correlation between skills developed among professionals and skills needed by employers. The services can be integrated into professional training practices at an international level as the proposed learning methodologies and tools are generic and have applicability across borders, across cultures, and in broad professional scenarios.
Description:	The proposed learning methodology applies learning design evaluation that integrates ex ante (pre course start) evaluation, on-going evaluation during learning delivery, ex post (post course completion) evaluation, and comparison of results. This innovative method offers a number of advantages for the teacher for the ultimate benefit of learners: it allows the continuous adaptation of the instructional method to the needs of the learners, the space of learning, and the new knowledge developed; it allows the teacher to monitor not only newly developed knowledge but also attitudes of learners in areas of interest related to the course; and more.
Target group:	Vocational education and training, higher education
Result:	
Area of application:	
Homepage:	http://histproject.no/sites/histproject.no/files/Evaluation_iQVET_spyros_ntouvlis_v2.pdf
Product Languages:	English

Product 'Eval One2Act rollup'

Title:	Eval One2Act rollup
Product Type:	others
Marketing Text:	An overview of the survey and evaluation methods that are available by use of Eval.
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	http://histproject.no/sites/histproject.no/files/one2act_rollup_hist_eval_korr3-3.pdf
Product Languages:	English

Product 'One2act rollup with SRS, PeLe, Eval and iLike'

Title:	One2act rollup with SRS, PeLe, Eval and iLike
Product Type:	others
Marketing Text:	The One2Act poster with the Eval tool integrated.
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	http://histproject.no/sites/histproject.no/files/one2act_rollup_hist_eval_korr3-3.pdf
Product Languages:	English

Product 'Evaluate One2Act A4 information sheet'

Title:	Evaluate One2Act A4 information sheet
Product Type:	others
Marketing Text:	One A4 page description of how Eval works.
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	http://histproject.no/sites/histproject.no/files/one2act_rollup_hist_eval_korr3-3.pdf
Product Languages:	English

Product 'Exploitation strategy guideline'

Title:	Exploitation strategy guideline
Product Type:	distribution methods
Marketing Text:	This report aims at introducing an exploitation path through which project outcomes can be exploited not only during the project implementation period but also post project completion. The exploitation strategy aims not only at the adoption of the project outcomes within partner organizations but, most importantly, the adoption of outcomes externally with the objective of ensuring that iQVET activities and products impact VET practices in countries in which the project has partners, namely Greece, Poland, Norway, and Romania, and beyond.
Description:	
Target group:	
Result:	
Area of application:	
Homepage:	http://histproject.no/sites/histproject.no/files/iqVet_Exploitation_Strategy.pdf
Product Languages:	English

Events

Workshop during UNESCO Mobile Learning Week, February 17-21, Paris,

Date	17.02.2014
Description	Demonstration of the Eval tools and methods.
Target audience	
Public	Closed event
Contact Information	
Time and place	

Demonstration of tools and methods during OEB 2013 from December 4 to 6th, 2013

Date	04.12.2013
Description	Demonstraton of the Eval tool at Online Educa 2013, from 4-6.12.2013.
Target audience	
Public	Event is open to the public
Contact Information	
Time and place	