



Leonardo da Vinci WBT WORLD,
RO/02/B/F/PP 141053



WBT Need Analysis Report - Czech Republic
Issued by: TEMPO Training & Consulting Ltd.

National WBT Needs Analysis Report



Leonardo da Vinci Pilot Project WBT WORLD, RO/02/B/F/PP 141053

TEMPO Training & Consulting, Ltd.
Czech Republic



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I. Analysis results from the Czech Republic

Please, see the attachment 1.

II. Policies and initiatives for supporting e-Learning in Czech Republic, including disabled people

National Educational Plan in CR (White Book)

- Ministry of education and youth
- Published in 2001
- *For disabled people section II. Specific problems in education, chapter 10. Education of health and social disabled people*

National information policy in education in CR

- Ministry of informatics

Strategy of human resources development in CR

- National Education Fund in cooperation with Ministry of work and social affairs
- Published in 2003

Specifically for disabled people:

National politics towards disabled people, middle-term conception,

- Emphasis on education of disabled people – e-learning is mentioned as a possibility.

National plan for supporting and integration disabled people

- For period 2006-2009
- Government resolution No. 1004, 17.8.2005



III. Degree of application and spreading of web-based learning in Czech Republic, including disabled people

In accordance with Lisbon strategy eLearning is one of the main priorities towards the information society. Czech Republic is prepared to follow these criteria...

Actual trends in CR

- Web is one of the most favorite methods in education of adults, but there is a need of long-term research to know the actual trends in web based learning.
- The majority of courses are for improving PC skills and language skills.
- There is a need of pedagogical tools aimed at increasing students' motivation, team working, creative thinking...
- Actual offer of tools and contents for web learning is still insufficient and lot of organizations and individuals would like to receive next activities in this field.

- **Universities**
Satisfactory level of participation at web-based learning. Universities are centralized at website of CESNET association. Association CESNET is a major institution for organizations providing web-based learning. You can find there eLearning community, Courses overview, Contacts etc.
- **Private sector, public institutions**
..in meaning of training of employees – still not at satisfactory level.
Reason: Lack of courses providers. Lack of quality courses in Czech language, moreover education of adults is still not a priority for Czech employers.

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IV. Best practices applied in education using web-based learning

Project Virtual University

Common project of three faculties from Moravia region (Faculty of Economics, VSB-TUO Ostrava, Faculty of Natural Science, OU Ostrava, Faculty of Business and Enterprising, Karviná). Project is determined for university students, MBA students and for further education of university employees.

eLearning portal CESNET

National centre for academic eLearning activities.

CVUT online

Czech Technical University, Prague

Its role is to be a provider of eLearning methodology.

Guidebook – Basics of online learning and eLearning

Practical training in WebCT system, the most used solution for eLearning – CVUT has a server licence and offers it to other universities to carry on (run) their courses on CVUT server.

Integration of disabled children to education

Solver CELN – Czech eLearning Network



Project is aimed for students with special educational needs, especially for physically handicapped children.

Project use MultiMice and MultiType software



New system for quality improving of learning through the PC and projector.

MultiMice system – possibility of simple interaction between student and teacher and among students.

Faculty of eLearning, Prague

Solver CELN



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Project is aimed for SME. Faculty of eLearning, Prague supports SME in launching electronic training through seminars organizing and cooperation with Commercial Chamber.

Computer Interactive Test and Educational Device
CELN – exclusive distributor for the Czech Republic



Application for basic, secondary, high schools and universities.

Its components are MultiMice, MultiType and Tests.

Entertaining, playfull and motivating way of learning for students. For teachers very pleasant way for repeating and evaluation of students´ knowledge.

V. Experiences in developing qualitative evaluation systems of the web-based courses

University of Hradec Králové (<http://fim.uhk.cz/e-learnig/>)

- Competition for quality assessment of e-learning courses and products.
- Public presentation of new prepared and up-dated eLearning products.

Technical university of Košice, Slovakia

- e-learning in praxis - organizer:
- Public presentation of e-learning courses.
- Czech institutions can attend this event.

Technical university of Bratislava, Slovakia

- Competition for the best course/lesson.

University of Tomas Bata, Zlín

- Courses are evaluated by vocational committee according to the foreordain qualitative criteria.

VI. Database with institutions involved in Internet-based learning

Institutions and organizations

National centre of distance learning: <http://www.csvs.cz/struktura/ncdiv/ncdiv.html>

Partnership of schools in Europe: <http://www.etwinning.net/ww/cz/pub/etwinning/index.htm>

VIRTUNIV – association of three Moravian universities: <http://www.virtuniv.cz/>

Institute for further education (University of Hradec Králové):
<http://www.uhk.cz/fim/fakulta/idv/>

Distance learning at VSE (University of Economics, Prague) <http://distanzni.fph.vse.cz/>

CELN – Czech E-Learning Network www.celn.cz

Websites of LMS creators

NET-UNIVERSITY s.r.o.: <http://www.net-university.cz>

Rentel a.s.: <http://www.rentel.cz>

Kontis s.r.o.: <http://www.e-learn.cz>

eDoceo: <http://www.edoceo.cz>

eAmos, e-learning system : <http://www.eamos.cz/amos/index.php?m=about>

Portals

E-learning portal CESNET : <http://elearning.cesnet.cz/>



Portal TELMAE: <http://telmae.karlov.mff.cuni.cz/>

Project VEGA - on line education: <http://vega.fifi.cvut.cz/docs/webctfile/realizace1.htm>

Portal of European Union: <http://www.elearningeuropa.info>

EDEN - European Distance and E-learning Network: <http://www.eden-online.org/eden.php>

School online : <http://www.skolaonline.cz>

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ElearningPost : <http://www.elearningpost.com>

eContent - European Digital Content on the Global Network: <http://www.cordis.lu/econtent/>

eLabyrinth – portal for human resources development, more than two hundred courses from various providers: <http://www.elabyrinth.cz>

VII. Conclusion

The total number of respondents was 20.

The group of respondents includes 12 IT specialists and 8 teachers/trainers/pedagogical workers.

The answers indicate rather incipient experiences in e-learning field. Majority respondents work in e-learning field from 1 – 3 years. Respondents would like to share IT and pedagogical competencies at the same level approximately.

Regarding the difficulties, encountered in the e-learning field, only 8 respondents marked some (administrative and technical).

The area of “evaluation” seems to be interesting for our respondents. They marked answer with this topic (P. Educational needs: thematic areas) very often. Majority of them think, that it is necessary to approach other themes (T. Educational needs: training in related fields). Each respondent is a member of some virtual community, they prefer email and they also participate at forums and chats and find them useful for their work.

Concerning the general information (N. Information needs) they would appreciate the information about best practices in e-learning. In case of specific information - studies, articles, research and synthesis, conferences/scientific congresses.

For personal data, please, see the table.

Attachment N°. 1
Questionnaire of Web-Based Trainers' Expectations Results

	Question	Answers	Frequency
G.	E-Learning experience		
G.1	<i>How do you appreciate your experience in the e-learning field?</i>	Rich Sufficient Incipient I cannot appreciate	6 4 7 3
G.2	<i>How long have you been working in the e-learning field?</i>	For more than 5 years For 3-5 years For 1-3 years For less than a year Not at all	4 3 11 1 1
G.3	<i>In which of the following competence areas would you like to share your experience:</i>	Pedagogical competences IT competencies E-tutoring competences Managerial competences for implementing a new e-learning system Other	8 10 1 0 0
D.	E-learning difficulties		
D.1	<i>Have you encountered difficulties as far as e-learning is concerned?</i>	Yes No	8 11
D.2	<i>What kind of difficulties have you had?</i>	Administrative (organizational) Technical Legislative Cultural Didactic/pedagogical	4 4 0 0 0
D.3	<i>If you have chosen the administrative aspects, please detail the difficulties you perceived.</i>	Insufficient funds to develop an e-learning system The lack of e-learning strategies and politics The lack of interest regarding e-learning education The human resources strategy The lack of clear, accessible communication channels Unfavorable climate The blockage of the information access Other	0 0 3 0 0 0 1 0
D.4	<i>If you have chosen the technological aspects, please detail the difficulties you perceived.</i>	Internet access Band width Non-proficient equipments Hardware-software incompatibility The lack of clear, accessible communication channels Other	2 0 0 2 0 0
D.5	<i>If you have chosen the legislative aspects, please detail the difficulties you perceived.</i>	Insufficient or absent legislation in the field Restrictive laws in the field Juridical aspects regarding the copyright Other	- - - -
D.6	<i>If you have chosen the cultural aspects, please detail the difficulties you perceived.</i>	Gender discrimination Ethnical/racial/religious discriminations Age discriminations Discrimination regarding disabled persons Representation differences among cultures regarding educational aims	- - - - -

		Representation differences among cultures regarding learning process and teacher – student relation Other	- -
D.7	<i>If you have chosen the pedagogical aspects, please detail the difficulties you perceived.</i>	Understanding the terms and using the specific language Reduced accessibility to information resources Applying knowledge into practice Passing from traditional pedagogy to e-learning pedagogy Pedagogical and technical problems taken together Other	- - - - - -
P.	Educational needs: thematic areas		
P.1	<i>Which of the following thematic areas of „Instructional Design” field would you like to be detailed considering your educational needs?</i>	Identifying constraints and risks regarding web-based courses Establishing the objective of web-based course Selecting the themes for the web-based course Establishing the instructional strategies specific to e-learning Integrating evaluation in the course scheme Other	0 5 6 0 9 0
P.2	<i>Which of the following thematic areas of „Web course Design” field would you like to be detailed considering your educational needs?</i>	Operationalizing the objectives of the web-based course Structuring and the organizing the scientific content Developing and using the criteria to evaluate the web-based course Analyzing the results of the different aspects of the evaluation Other	0 5 9 6 0
P.3	<i>Which of the following thematic areas of „Evaluation System” field would you like to be detailed considering your educational needs?</i>	Establishing the evaluation aim and learning objectives to be evaluated Developing the items to evaluate the learning results Developing and using the criteria to evaluate the web-based course Analyzing the results of the different aspects of the evaluation Other	2 3 11 4 0
P.4	<i>Which of the following thematic areas of „E-tutoring” field would you like to be detailed considering your educational needs?</i>	Leadership The virtual group management Facilitating learning Facilitating the development of the students personality Developing of the own career Other	1 4 7 6 2 0
P.5	<i>Which of the following thematic areas of „Developing multimedia interactive resources” field would you like to be detailed considering your educational needs?</i>	Using specialized software for text and data processing Using specialized software for programming Using specialized software for multimedia processing (creating graphic elements, audio-video, animation) Implementing the web-based course Other	2 6 6 4 2 (without any problems)
P.6	<i>Which of the following thematic areas from the „Using multimedia equipment in</i>	Installing using and ensuring the maintenance of the hardware equipment Using communication tools	6 2

	<i>communication" field would you like to be expanded considering your educational needs?</i>	Using hardware and software equipment for data transmission Other	2 10 (without any problems)		
O.	Educational needs: training				
O.1	<i>If you are going to become WBT, in which of the following sub-fields linked to pedagogical training would you like to improve yourself?</i>	Adults learning The pedagogy of communication in e-learning The psychology of the adults personality The pedagogy of differences tutoring The pedagogy for e-learning The psycho-pedagogy of special-needs people Other I don't know, I cannot answer	5 6 2 2 3 2 0 0		
O.2	<i>If you are going to become WBT, in which of the following sub-fields and which are linked to technical training would you like to improve yourself?</i>	Information technology in education PC Basics Using the internet and website management Web Design and web design tools Graphic and animation tools Introduction in Streaming Technology Educational software Other I do not know, I cannot answer	5 2 3 2 6 2 0 0 0		
T.	Educational needs: training in related fields				
			Yes	No	I don't know
T.1	<i>Do you think necessary to approach other themes, linked to the following fields?</i>	Intercultural communication Legislation specific to e-learning Organization and management theory The virtual community functioning	12 14 13 7	8 5 4 4	2 1 3 9
T.2	<i>Please appreciate the level of your interest in themes related to web based training of disabled persons</i>	I am not interested Low level Medium level High level	2 4 12 2		
T.3	<i>If you are interested in the above-mentioned field, which are the themes you would like to be detailed considering your educational needs</i>	Disabled persons and their needs Specific training methods Specific Internet technologies and tools Other	5 9 4 0		

I.	The virtual community		
I.1	Are you a member of any virtual community?	YES NO	20 0
I.2	Which of the following communication tools do you prefer to use in the virtual community?	Forum Chat Email Web log Other	2 2 16 0 0
I.3	Do you participate in forums/ chats on the Internet?	YES NO	11 9
I.4	From your experience, was this participation useful in your education?	YES NO	16 4
I.4	Have you accessed educational courses of the e-learning type on the Internet/Intranet?	YES NO	9 11
I.5	What language do you prefer for the e-learning activity?	The mother tongue The English The mother tongue or English, depending on the situation Any of these	13 2 5 0
N.	Information needs		
N.1	Your need of general information is guided especially towards obtaining information linked to (maximum 2 choices)	Best practice in e-learning Knowing the tendencies in e-learning European projects in e-learning Policies/initiatives in e-learning Another field	12 4 7 2 0
N.2	Your need of specific information is guided especially towards obtaining information linked to (choose maximum 2 choices)	Book presentation Educational software Studies, articles, research Synthesis, conferences/scientific congresses Another field	3 2 7 9 0
A.	Attitudes		
A.1	Please indicate which of the following attitudes you consider as defining a WBT.	Reflexive and self-reflexive attitude Self-confidence Integrating view Guidance, orientation according to some fundamental values Opening towards new experiences Orientation towards cooperation Respect for the individual's right Sympathy for the others Personal involvement Democratic attitude in interaction I don't know/I cannot answer	6 1 4 0 1 1 2 1 2 2 0
Z.	Personal data		
Z.1	Gender	Masculine Feminine	14 6

Z.2	Age. Remark: mark the number by crossing the figures corresponding in the two rows.		
Z.3	You graduated:	High school Faculty Improvement studies/postgraduate studies Doctoral studies Postdoctoral studies Others	2 11 3 3 1 0
Z.4	Please mention your training in the field	Pedagogical, formal Pedagogical, informal IT, formal IT, informal	8 10 2
Z.5	The field of activity	Exact and life sciences Technical studies/engineering Computer sciences Politics Medicine Arts Literature Economy, finances Management, marketing, advertising Humanities, history Another field	0 7 5 1 0 0 2 1 2 2 0
Z.6	The type of the institution in which you work.	University Secondary school High school Training private company IT company Other	4 1 2 4 8 Telecommunication company 1