

Collaborative Open Environment for Project Centered Learning

Modelling the Virtual Company Educational Scenario Competence Assessment in the Cooper environment

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Cooper Workshop, Crete 17-09-2007



Virtual Company educational scenario

- -working and learning environment modelled after real company
- -students work on projects in a professional setting
- -compentences to be developed stem from professional practice
- -assessment derived from professional practice





Assessment strategies

Traditional:

- -separates process from product
- -learning is individual
- -objective, value free, neutral
- -assume knowledge universal
- -separates cognitive from affective abilities

Competence assessment:

- -process as important as product
- -develop competence in groups
- -knowledge embedded in person
- -knowledge related to context
- -more holistic view of the learner





Main competence list

Group 1: Research

- 1.1.1 Identifying problems and formulating the research question
- 1.2.1 Determine methods and techniques
- 1.3.1 Gathering data
- 1.4.1 Process data and analyse
- 1.5.1 Drawing conclusions and evaluating

Group 2: Reporting

- 2.1.1 Verbal reporting
- 2.1.2 Reporting in writing
- 2.1.3 Editing
- 2.1.4 Presenting

Group 3: Discussion en collaboration

- 3.1.1 Chairing a meeting
- 3.1.2 Taking minutes
- 3.2.1 Collaboration

Group 4: Communication

- 4.1.1 Acting customer centred
- 4.1.2 Maintaining external contacts
- 4.2.1 Communicating inside and outside of the company
- 4.2.2 Managing company knowledge

Group 5 Supervision of activities

- 5.1.1 Leading a group
- 5.1.2 leading individuals
- 5.2.1 Planning and organising
- 5.2.2 Guarding progress
- 5.3.1 Coaching a fellow worker

Group 6 Personal additions

6.x.x cproposal for additional competencies>





Competence

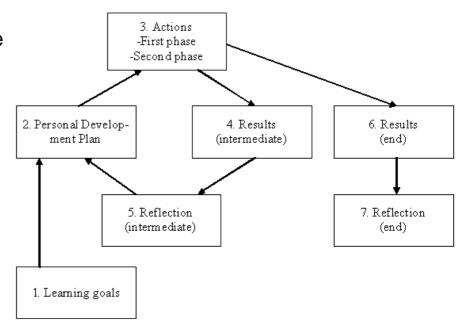
Name: Research	Description	Points of interest for assessors
1.1 Identifying problems and formulating the research question.	Stipulates the problem from the task, splits it up in sub-problems or aspects, specifies domains that the problem is related to, names the relevant stakeholders. Describes the problem in a larger framework, with relevant references to similar problems. Verifies with the client if the problem has been described correctly and fully. Formulates the research questions and splits these up in sub-questions. Verifies with the client if the research questions have been correctly and entirely described.	 Examines the task and stipulates the problem in consultation with the customer Differentiates between main and side-issues Classifies the problem in several aspects/sub-problems Clearly states to which field the different (sub)problems are related Provides a clear and complete problem description, based on obtained information. Describes the problem in a larger framework Describes availability of background information. Names relevant stakeholders Defines relevant research questions and splits these up in sub-questions Verifies research questions with the customer





Working in Projects (1 of 2)

-Personal development cycle

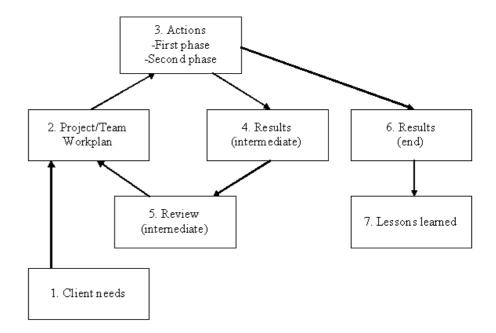






Working in Projects (2 of 2)

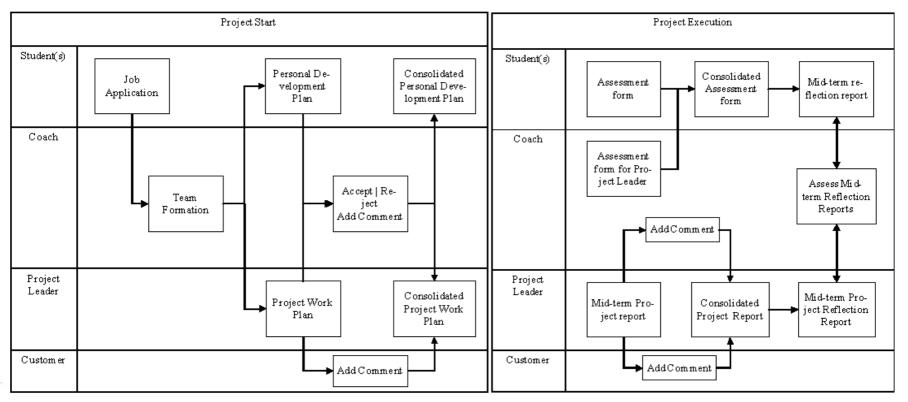
-Team development cycle







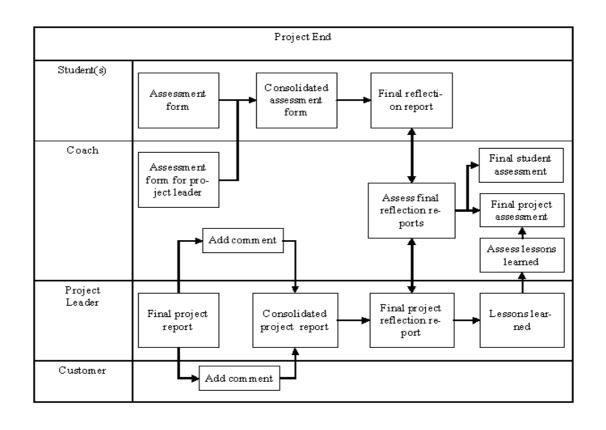
Assessment model (1 of 2)







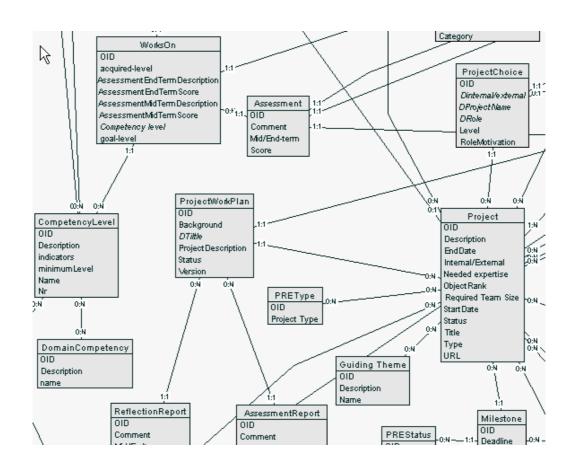
Assessment model (2 of 2)







Data model extension







Conclusions

- -The virtual company educational scenario requires non-traditional assessment strategies
- -The assessment strategy can be modeled using the Cooper development tools, although not all processing occurs inside the Cooper platform
- -Testing is needed for usability and validation of the model



