

General Information

Competency Based Assessment



Objectives

- Definition and principles of competency based assessment
 - Definition and concept of competency
 - Principle of being competent
 - Benefits of competency based assessment
- Organisation of the assessment

Types of evaluations and progress during the semester

Transposition of the evaluation into a note

Precise rule to obtain a grade out of 20 from assessments



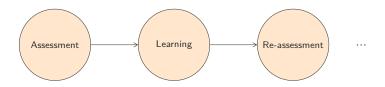
The Apprentice

- American reality television program "The Apprentice"
 Judges business skills of a group of contestants
- Competition over several weeks to become the winner
 - Real world business case related tasks assigned to complete
 - Performance judged by show host and business savvy advisors



Competency Based Assessment

- Determining whether a person can do a task or group of tasks
 And also evaluate how well the task has been performed
- Evaluating persons to determine their competencies
 Using their knowledge and skills in an on-the-job situation
- Building the skills and knowledge needed to perform a job
 Not only an assessment exercise, but a complete learning process



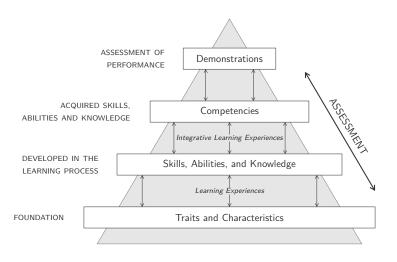
Competency

■ Definition of competency according to NPEC work group

"a combination of skills, abilities, and knowledge needed to perform a specific task."

Competency or set of competencies attained by a learner
 Development of a completely different learning system

Learning Model (1)



Source: U.S. Department of Education, 2001.

Learning Model (2)

- First rung of the ladder is traits and characteristics
 Innate makeup of individuals on which experiences can be built
- Skills, abilities and knowledge acquired by learning experiences
 Different levels and kinds depending on traits and characteristics
- Assembling learning bundles for a given task or set of tasks
 Based on acquired skills, abilities and knowledge interactions
- Applying competencies result in demonstrations
 Performance-based learning can be achieved at this last rung

Being Competent

- An individual being competent has sufficient/suitable:
 - Knowledge: sum of what is known gained through experience
 - **Skill**: ability to use one's knowledge effectively
 - **Experience**: practical knowledge, skill or practice derived from direct observation of or participation in events/activities
 - **Attitude**: mental position/feeling/emotion towards fact/state
- Always related to some particular skill or situation
 - Also always implies more than just having the skill

Assessment

- Opportunity for demonstration of skills
 What I learned, how am I doing and what will I learn next
- Complete change on where to put the focus
 - ↑ Empowering learners to demonstrate what they have learned
 - ↓ Collecting data for the instructors
- Assessments are completely integrated in the learning process
 Self-assessment, formative and summative assessments

Benefits

- Provide specific feedback to learners about their performances
 Clearer understanding of progress and skills gained over time
- Four main benefits for competency based assessments
 - Better clarity and transparency about learner progress
 - Opportunity to individualise and personalise the learning
 - Development of a culture of assessments and diversification
 - Better understanding of their own learning profile for learners



Transition

- Current system requires a grade for each course
 Need a transposition rule from competency based assessment
- Current system splits studies in teaching units
 Need transversal assignments to cover shared competencies
- Current system tends to seclude theoretical sessions and labs
 Need to rethink labs as the place to assess one's competencies

Zero Exam

- No more exams during the exam sessions
 Students are assessed continuously during all the semester
- No more revision break before the exam sessions
 Time should be used to put new competencies at work
- But more regular work during the semester
 Continuous learning and integration to improve experience

Competencies List

- Detailed and complete list of competencies by teaching unit
 Competencies are split in two categories
- Basic competencies must be acquired to succeed
 These competencies are specific to the teaching unit
- Advanced competencies can be acquired through the course
 Could be transversal to several teaching units

Assessments List

- List of assessments that can be taken by teaching unit
 - Several kinds: MCQ, quizz, mini-project, assignment, etc.
 - Can be taken at any time, after self-assessment
- List of competencies that can be checked for each assessment
 To increase your level of mastery for these competencies
- Overlapping competencies among assessments
 Possibility to choose best suited assessment given learning profile

Assessments Opportunities

- Self-assessment can be and should be taken at any time Allows the learner to check his/her level of mastery
- Learners can propose custom tailored project
 Specifications defined with the instructor to define competencies
- Assessment interview between learner and instructor
 During the semester and some days during exam sessions

Grade Computation

- Each competency is graded on a scale from 0 to 5 stars ★

 Corresponding to a mastery level from 0% to 100%
- First step is to acquire all the basic competencies
 - 100% mastery for all the basic competencies : 10/20
 - Otherwise: 0/20
- Second step is to acquire the n advanced competencies
 - Only available if 100% mastery for basic competencies
 - $\frac{2x}{n}$ points to get, with x the total number of obtained stars

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