

#### 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



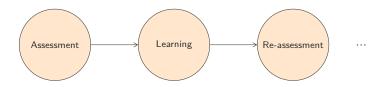
## The Apprentice

- 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



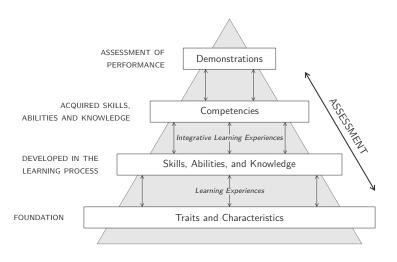
## Competency

■ 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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