

# COMPETENCY-BASED EDUCATION

## Competence-Based Learning System Design of the University of Bohol-BEED Qualifying Program for Second Coursers

### I. Introduction

Accompanied by the rapid development of computer multimedia and network technology, the Internet based teaching and learning methods have become the developing trend and the traditional classroom learning also expands to the virtual network learning environment. The competence-based education is originated from American vocational education, developed from normal education, and finally was successfully expanded to the vocational education in other countries and applied to various courses and careers globally. This competency-based education is the model used by the University of Bohol-BEED Qualifying Program for Second Coursers employing the Blended Learning Approach.

### II. Definition

Competence-based education is a systematic yet flexible approach to organizing instruction. This approach focuses on defining in measurable terms what students are to learn and then evaluating how well they can perform designated tasks after instruction. Expected behavior or tasks, conditions for their performance, and acceptable standards are shared with students prior to instruction.

This is based on education theory to design an on-line learning system of sequence control experiment, provide proper materials and can record students learning paths.

### III. Application of competence-based education to networked learning system

Competence-based education is a concept, a system learning method. It is to develop default ability of the students. Therefore, competence-based education should design the goal for students, and the goal should express the performance that students should reach. Teachers then modify the learning activities and learning environment according to the evaluation. The characteristics of competence-based education are as follows:

- 1. Unit Materials.** The unit material is a complete and goal oriented learning activity. The reasons to use the material are (a) goal oriented and the grade can be given by each unit, and it is easier than grade for the whole semester, (b) the material is easier to add, modify or delete, (c) it provides more opportunities for students to access.
- 2. Goal of Behavior.** Goal orientated is the goal based on students' actual actions. It is based on a normal goal, and then divides into several actual goals. It should be clear and fixed. The action goal is enough to test students if they are through the changes of behavior.
- 3. Evaluation.** Feedback on performance is provided to students who are held accountable for attaining a given level of competence. Mastery of competencies is determined by evaluation of knowledge and skills utilizing varied assessment methods. Credit for prior learning may be demonstrated through competency validation measures such as testing, demonstration and evaluation of skills, portfolio documentation and evaluation, and employer verification (particularly those who have experience in the field).
- 4. Individual learning.** Individual learning means student learning process can be free and that the individual learning is important.

## 5. Teaching-Learning Approaches:

- Course/module content is determined by identifying competencies needed for successful employment.
- Individual course/module performance objectives are competency statements given to students in course syllabi or modules at the beginning of the learning activity.
- Subject matter is presented to the whole class through the website and is taken individually with varying time frames to accommodate different learning abilities.
- Assessment activities measure how well the student mastered the task (compared to criteria), and include online exams, demonstration of skills (done thru Skype), and **electronic documentation**.
- Grades are determined by comparing an individual's performance to pre-specified criteria or standards.

## 6. Learning Packages. Competency-based education learning objectives maybe packaged thru:

- Modules
- Credit courses

## 7. Delivery Strategies

- Online
- Hybrid (combination)

## 8. Teacher is the administrator. In the learning system, students are willing to learn. And the teacher can be the instructor, administrator of the materials and the pusher of learning motivation. Students are the focus and the teacher is just the instructor. In order to reach the goal, course design must be evaluated before entering into the next study unit.

#### IV. References

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