

Krishda Srichanpiyom 2014: A Development of Authentic Assessment tool for Course Development Subject of Department in Electrical Engineering, Faculty of Technical Education, King Mongkut's University of Technology North Bangkok. Master of Education (Educational Research and Evaluation), Major Field: Educational Research and Evaluation, Department of Education. Thesis Advisor: Assistant Professor Chatsiri Piyapimonsit, Ed.D. 255 pages.

The purposes of the research were to develop and study the use of Tool for Authentic Assessment in Course Development Subject of Department in Electrical Engineering, Faculty of Technical Education, King Mongkut's University of Technology North Bangkok. The target population used as a student in electrical engineering major, 3rd years, 2nd semester, 2556 academic year, 2 classroom and teachers are 2. How to research process is study concept of education Theories related to Authentic Assessment and tools. The tool used to evaluate consists of Lesson plan, Assessment Achievement, Worksheet, Assessment Attribute Personal and Portfolio. Researchers created a tools manually. The tools quality of the content validity by analyzing the IOC and the test item is difficulty and discrimination analysis. And then analysis of reliability using Kuder-Richardson (KR-20) and reliability of the scoring criteria calculate by Rater Agreement Index (RAI).

It was results 1) The quality of the lesson plans an average is 3.80 to 4.80 and 4.00 to 4.20 on the Content Validity, learning with Worksheet is 4.40 to 4.60. Content Validity of Assessment Achievement were 0.60 to 1.00, difficulty is 0.36 to 0.73 and discrimination 0.22 to 0.69 and then reliability were 0.778, 0.818, 0.803, 0.802 and 0.842. Content Validity of Worksheet were 0.33 to 1.00 and RAI was 0.92, 0.96, 0.99, 1.00, 0.96 and 0.95. Content Validity of Assessment Attribute Personal is 1.00, the faithfulness were 1.00, the responsibilities were 0.67 and prudence were 1.00 and punctuality were 0.67 and share ideas as 1.00 and discuss to 1.00 and Reliability of the scoring is 0.95. Portfolio suitability of the assessment portfolio averaged 4.67 to 5.00 and the appropriate between score level and Assessment criteria of 0.67 to 1.00. Reliability was 0.89. And 2) Use the Authentic Assessment tools in Knowledge that students develop increased in each of the tests. Skills development courses found that the ability to develop a curriculum is very good. And attribute personal that all students are more punctual, intend Perform almost all and Joined in the majority opinion.

Student's signature

Thesis Advisor's signature

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