

Integrating Computer-Assisted Instructional Material and Students' Performance in TLE 9 (Computer System Servicing)

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Abstract

The researcher aimed to assess the perception of the respondents on the acceptability level of the computer-assisted instructional materials in terms of CAI components (objectives, learning contents, practice task and evaluation), organization, design and layout, animation, usability, and adaptability. It also tests the cognitive and technical skills of the Grade 9 students. The significant difference between the pre-test and post-test of cognitive skill performance was determined using t-test. Furthermore, the researcher finds out if the perceived level of acceptability on the developed CAI is significantly related to students' performances. The findings reveals that there were more females and roman catholic among the respondents. Their parents' educational attainment was both high school graduate and were self-employed. Most of the family monthly income were less than 10,000 per month. Majority of the respondents have a smartphone as their available gadgets at home. The components of the CAI in terms of objectives, learning contents and practice task were perceived acceptable. On the other hand, the evaluation (CAI component), organization, design and layout, usability and acceptability are highly acceptable. Majority of the respondents were fair during the pre-test and improved as good in the post-test While, majority of the respondents were very good in their technical skills. There is a significant difference between the pre-test and post-test cognitive skill performance; the hypothesis was not sustained. The level of acceptability on the developed CAI is not significantly related to the students' performances; the hypothesis was sustained. It is recommended that the developed CAI be use in other grade level whenever it is applicable for any TLE intervention or enrichment activities.

Keywords: *Computer-Assisted Instruction (CAI), Computer System Servicing (CSS), Students' Performance, TLE 9*