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- : [CAI](#)
- : [An Effectiveness of CAI Strategy for Vocational High School Students in Preparation for Certification of Class C Technician of Consumer Electronics](#)
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- : ; [learning effectiveness;CAI;Certification of Class C Technician of Consumer Electronics](#)
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The purpose of this study was to investigate the effectiveness of CAI strategy for vocational high school students in their learning of courses required for Certification of Class C Technician of Consumer Electronics. The nonequivalent pretest-posttest design was adopted. Two second-year classes of the electronics department in a vocational high school were selected. The students were divided into the experimental group and the control group and given an eight-week experimental instruction on Class C consumer electronics. In order to compare the learning effectiveness between the two groups, both groups were given a subject test and a skill test after the experiment. The obtained quantitative results were analyzed using methods including descriptive statistics,

independent sample t-test, and one-way ANCOVA on SPSS for Windows 12. The main conclusions were as follows: 1.The experimental group scored higher than the control group in the posttest of subject knowledge, but the difference was not significance. 2.The difference between the experimental group and the control group in the posttest of skills was significant. 3.The experimental group outperformed the control group in terms of skill test completion time.

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