Effects of Jigsaw-IV Strategy on Students' Practical Skills Performance in Maintenance and Repairs of Electrical Equipment at College of Education in Kano-Nigeria

By

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Abstract

The study examined the effects of Jigsaw-IV on students' practical skill performance in maintenance and repairs of electrical equipment at Colleges of Education in Kano Nigeria. A research question and hypothesis guided the study. The population of the study is sixty-two (62) students, consisting all NCE III Electrical/ Electronic Technology Education Students at Colleges of Education in Kano-Nigeria. Simple random sampling technique was used to sample the two (2) College of Education for the study. Quasi experimental design involving the pre-test, post-test of non-equivalent group were used for the study Jigsaw-IV strategy was used in teaching the experimental group and demonstration teaching method was used in teaching the control group. Practical skills performance observation checklist (PSPOC) in Maintenance and Repairs of Electrical Equipment was used for data collection instrument. The reliability coefficient for PSPOC was established using Kendell coefficient of concordances method and correlated using PPMC which yielded an index of 0.72. Mean and standard deviation was used to answer the research question while Analysis of Covariance was used to test the null hypotheses at 0.05 level of significant. The results of the findings revealed that demonstration method improved students' practical skills performance in maintenance and repairs of electrical equipment than Jigsaw-IV strategy and the effect is significant. The study recommends among others that teachers should be encouraged by NCCE to adopt demonstration method specifically for practical skills as it enhanced students' practical skills performance in maintenance and repairs of electrical equipment.

Keywords: Electrical Equipment , Maintenance, Colleges of Education and Jigsaw-IV Strategy