

## ABSTRACT

### THE INFLUENCE OF DIGITAL MEDIA ON THE STUDENTS' ACADEMIC PERFORMANCE OF WELDING COMPETENCE STANDARD ON MANUAL METAL ARC WELDING PROCESS IN SMK N 2 PENGASIH KULON PROGO

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This study is aimed at: (1) assessing the students' academic performance prior to the exposure to learning process through the Digital Media program *Adobe Professional Flash CS3*; (2) assessing the students' academic performance after the exposure to learning process through the Digital Media program *Adobe Professional Flash CS3*; (3) assessing the improvement of the students' academic performance after the exposure to the Digital Media program *Adobe Professional Flash CS3*; and (4) assessing the influence of the Digital Media program *Adobe Professional Flash CS3* to the students' academic performance.

This study is a quasi-experimental research by the *Pretest Postest Non Equivalent Control Group Design* and is a population experiment, comprising of Grade X MP1 as the experimental group and Grade X MP2 as the control group. The data collection procedure used is testing method. The study uses *Face Validity*, consulted to an expert (*Expert Judgment*) as an instrument. Its reliability was analyzed using half internal reliability using the Spearman Brown method. The data was analyzed using descriptive analysis with percentage.

The results show that (1) the academic performance of the experimental and control groups prior to the implementation of the learning process through the Digital Media program *Adobe Professional Flash CS3* is 40.2 and 42.8 out of 100, respectively; (2) the academic performance of the experimental and control groups after the implementation of the learning process through the Digital Media program *Adobe Professional Flash CS3* is 87.7 and 70.3 out of 100, respectively; (3) there is a more significant improvement on the academic performance on the experimental group than the control group, showing 118.41% and 64.64% of improvement, respectively; (4) there is a more positive influence of the use of the Digital Media program *Adobe Professional Flash CS3* on the students' academic performance compared to the conventional media. In the group that was exposed to the Digital Media program *Adobe Professional Flash CS3*, there is an academic performance improvement of 118.41% or grade improvement of 47.5, while the group exposed to the conventional media only improved 27.5 or 64.64%.

**Keywords: Digital Media and Academic Performance**