

## ABSTRACT

### THE DIFFERENCES OF THE PRACTICE FACILITIES AND THE ACHIEVEMENT OF BASIC WELDING OF THE FIRST GRADE OF AUTOMOTIVE MAJORS STUDENTS IN SMK MUHAMMADIYAH PRAMBANAN AND SMK MUHAMMADIYAH CANGKRINGAN

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This study aims to determine a general overview of workshop facilities and the environmental of practice that exist in each school, furthermore analyze the data whether there are differences in the practice facility on the achievement working of basic weld in SMK Muhammadiyah Prambanan and SMK Muhammadiyah Cangkringan. If there is a difference so the involved school should be able to optimize the existing facilities and to improve the student achievement, especially in basic welding subjects.

The study was conducted in the welding workshop of the automotive mechanic engineering in SMK Muhammadiyah Prambanan and SMK Muhammadiyah Cangkringan. The main data of this research was obtained by filling out the sheet instruments that were made based on reference standards of Badan Standar Nasional Pendidikan (BSNP), while the supporting data were collected from various documents at the workshop of practice. The Data was collected through observation, observation, and documentation of the student report values. The condition of the data from the practice facilities and the achievement working of basic welding of the students who had obtained subsequently treated with a test variant one lane (*one-way ANOVA*) at both schools are using the help of a computer package SPSS and *Microsoft Excel*.

The results revealed that: (1) There are differences in the practice facility at SMK Muhammadiyah Prambanan and SMK Muhammadiyah Cangkringan, it is evidenced by the charging instrument results of the equipment found at SMK Muhammadiyah Prambanan in a whole manner there are 26.38%, while at the SMK Muhammadiyah Cangkringan only about 2.50% , besides that in *One Way ANOVA* test of the practice environment obtained  $F_{\text{calculate}} > F_{\text{Table}} (97 \ 737 > 3.89)$ , which means that there are differences in the practice environment in SMK Muhammadiyah Prambanan with SMK Muhammadiyah Cangkringan where the average (mean) at SMK Muhammadiyah Prambanan is 16:33 , and to SMK Muhammadiyah Cangkringan is 13:36 so that the average of the practices environment at SMK Muhammadiyah Prambanan is higher than the SMK Muhammadiyah Cangkringan; (2) There are the differences of the achievement working of basic weld of the students at SMK Muhammadiyah Prambanan and SMK Muhammadiyah Cangkringan, it is based on the results of *One Way ANOVA* test where  $F_{\text{calculate}} > F_{\text{table}} (58 \ 062 > 3.89)$  and the significance level at 0.05, so it can be concluded that there are differences of the average value of achievement working of basic weld at SMK Muhammadiyah Prambanan and SMK Muhammadiyah Cangkringan where the average of the achievement of basic weld in SMK Muhammadiyah Prambanan is 7:22 , for SMK Muhammadiyah Cangkringan is 6.75, it is means that the average value of the achievement of basic weld at SMK Muhammadiyah Prambanan is higher than the SMK Muhammadiyah Cangkringan.