

## ABSTRACT

**IMPROVING THE STUDENTS' UNDERSTANDING OF READING  
WORKING DRAWING WITH HAND-OUT IN THE  
WELDING COURSE IN SMK N 3 YOGYAKARTA**

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The purpose of this research is to find out whether the use of handout in the welding course effective and able to improve the students' understanding of reading working drawing with hand-out in the course subject of welding in class X TP 4 of SMK N 3 Yogyakarta.

This research is Action Research with Kemmis' model implemented in three cycles. Each cycle consisted of four stages; those were planning, action, observation, and reflection. The subject of this research was X class TP 4 of SMKN 3 Yogyakarta amounts to 34 students in the basic course of machine vocation (Dasar Kejuruan Mesin/DKM). The data collecting technique of this research was conducted through observation and test. The data of observation obtained in each cycle and the test result were analyzed using descriptive technique.

The result of this research shows that there is an improvement of the student's learning achievement result after the implementation of the application method of using handout in the course subject of welding theory. In the first cycle the average score of the student's learning result is 70, in the second cycle the average score of the student's learning result is 74.17, and in the third cycle the average score of the students' learning result is 84.11. Therefore, it can be concluded that the use of handout in the course subject of welding theory can improve the students' understanding of reading working drawing in class X TP 4 of SMKN 3 Yogyakarta.

**Key Words: handout, working drawing of welding, learning result**