

# **The Use of Control Cards to Guarantee the Quality of Learning Achievement of Oxy-acetylene Welding Practice in Mechanical Engineering Education Department of Yogyakarta State University (MEED-YSU)**

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## **Abstract**

This research in oxy-acetylene welding practice course aims at knowing: (1) the learning achievement of students through the use of control cards, (2) the increase of students' learning achievement through the use of control cards, (3) the difference of increase of student learning achievement between the usage of control cards and the without control cards.

This research is a *quasi experiment*, carried out in the Fabrication workshop MEED-YSU. The study population was all 2<sup>nd</sup> semester students of the MEED-YSU. The samples were taken by *random assignment* consists of 2 classes as control groups and 2 classes as experiment groups. The data were collected through observation and documentation sheets. The validity of data obtained throughout *in-depth* observation of practice and documentation of the study result. Then, the data was analyzed by using descriptive statistics.

The results show that: (1) The mean score of the learning achievement is 82.66, equivalent to A-, (2) The learning achievement increases 7.03 %, (3) the amount of increase in learning achievement of each job is 0.08 %; 4.19 %, and 2.76 % (4) the achievement difference between the experimental groups and control groups which amounts 7.87 means that the use of control cards in oxy acetylene welding practice learning is effective.

**Key words:** control cards, study results, oxy-acetylene welding practice