

**THE EFFECT OF INQUIRY TRAINING ONLINE MODEL ON THE  
PHYSICS LEARNING OUTCOMES OF SMAN 7 MEDAN ON THE  
MOMENTUM**

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**ABSTRACT**

This study aims to determine the effect of the *Inquiry training* model assisted to student learning outcomes on Momentum Impulse material at SMAN 7 Medan. This type of research is a *quasi-experimental* research design with a *control group pre-test-post-test design*. The population in this study were all students of class X MIPA which consisted of 6 classes. The research sample was taken from 2 classes with *simple random sampling technique*. Class X MIPA 6 as a control class with a total of 30 students and class X MIPA 5 as a class experiment class with a total of 30 students. The instrument used to collect data in the study consisted of 10 validated essay questions. The results showed that the *pretest* average value for the experimental class was 22.50 with a standard deviation of 9,26 and the control class was 24.83 with a standard deviation of 9.87. Then the normality and homogeneity tests were carried out. After obtaining data that is normally distributed and homogeneous, then hypothesis testing is carried out (two-part t test) and the result is that  $-t_{table} < t_{count} < t_{table} (-2,02 < 1,66 < 2,002)$ , so it can be said that the initial abilities of students of both classes are the same. After that was given treatment, the experimental class with the *Inquiry training* model and the control class with conventional learning. After the learning is complete, a *posttest* is given and the average result of the experimental class is 70.07 with a standard deviation of 6.41 and the control class is 48.67 with a standard deviation of 7.06. The results of testing with the hypothesis using one-party t test, obtained  $t_{count} = 12.2$ , while  $t_{table} = 2.002$ . Because  $t_{count} > t_{table} (12.2 > 2,002)$  then  $H_0$  rejected and accepted by  $H_a$ . It can be concluded that there is an influence of the application of learning with *inquiry training model* to student learning outcomes.

**Keywords:** *inquiry training, learning outcomes*