

**EFEKTIFITAS MODEL *NUMBER HEAD TOGETHER* BERBANTUAN MEDIA  
PEMBELAJARAN INSTALASI MOTOR LISTRIK PADA KOMPETENSI  
KOMPONEN DAN RANGKAIAN PENGENDALI  
MOTOR LISTRIK DENGAN ELEKTROMAGNETIK  
KELAS XI TITL SMK N 2 YOGYAKARTA**

Oleh :  
Nurul Ahyari  
NIM. 15501241055

**ABSTRAK**

Penelitian ini bertujuan untuk mengetahui : (1) efektivitas penerapan model *Number Head Together* pada ranah kognitif (2) efektivitas penerapan model *Number Head Together* pada ranah afektif (3) perbedaan penerapan model *Number Head Together* model ceramah pada ranah psikomotorik

Jenis penelitian ini yang digunakan yaitu kuasi eksperimen dengan desain *Non-Equivalent Control Group Design*. Subjek penelitian ini yaitu siswa kelas SMK N 2 Yogyakarta sejumlah 62 orang dari kelas XI TITL 1 dan kelas XI TITL 3. Kelas XI TITL 1 sebagai kelas kontrol dan kelas XI TITL 3 sebagai kelas eksperimen. Efektivitas kompetensi ranah kognitif diketahui dapat diketahui melalui instrumen *pretest* dan *posttest*, instrumen angket untuk menilai kompetensi afektif dan rubrik pengamatan untuk menilai psikomotorik. Validitas instrumen dilakukan dengan *expert judgment*, uji validitas dan uji reliabilitas. Validitas penelitian dilakukan dengan menggunakan validitas internal dan eksternal. Teknik analisis data yang digunakan adalah deskriptif, *Independent Sample T Test*, dan Uji *N-Gain*.

Hasil penelitian diketahui bahwa (1) pada ranah kognitif menggunakan model pembelajaran NHT lebih efektif dibandingkan model ceramah dengan nilai rerata Gain kelas Eksperimen 49,17 dan rerata Gain kelas kontrol 36,19 (2) pada ranah afektif menggunakan model pembelajaran NHT lebih efektif dibandingkan model ceramah dengan nilai rerata Gain kelas Eksperimen 45,36 dan rerata Gain kelas kontrol 3,03 (3) pada ranah psikomotorik terdapat perbedaan antara model ceramah dengan model pembelajaran NHT dibuktikan hasil  $t_{hitung}$  lebih besar daripada  $t_{tabel}$  ( $2,088 > 2,003$ ).

Kata kunci : *Efektifitas, Number Head Together (NHT)*

**EFFECTIVENESS OF NUMBER HEAD TOGETHER MODEL BY LEARNING MEDIA IN ELECTRONIC MOTOR INSTALLATION OF COMPONENTS AND CONTROLLING ELECTRIC MOTOR WITH ELECTROMAGNETIC OF XI TITL CLASS YOGYAKARTA VOCATIONAL SCHOOL 2**

By:  
Nurul Ahyari  
NIM. 15501241055

**ABSTRACT**

*This study aims to determine: (1) the effectiveness of the application of the Number Head Together model on the cognitive aspect, (2) the effectiveness of the application of the Number Head Together model in the affective aspect, (3) differences of Number Head Together model and lecture model in the psychomotor domain.*

*The type of this research is quasi-experiment with Non-Equivalent Control Group Design. The subjects of this study were 62 students of the Yogyakarta Vocational High School 2 from XI TITL 1 and XI TITL 3. XI TITL 1 Class as the control and XI TITL 3 Class as the experimental. The effectiveness of cognitive aspect is known by the pretest and posttest instruments, questionnaire instruments to assess affective competencies and observation rubrics to assess psychotherapy. Instruments were validated by expert judgment, validity test, and reliability test. The validity of the study was carried out using internal and external validity. The data analysis technique used descriptive, Independent Sample T Test, and N-Gain Test.*

*The results of the research showed that: (1) by using NHT learning model in the cognitive aspect was more effective than the lecture model, Experimental class gained the average 49.17 and Control class gained the average 36.19, (2) by using NHT learning model the affective aspect was more effective than the lecture model, Experimental class gained the average 45.36 and Control class gained the average 3.03, (3) on the psychomotor aspect there were differences between the lecture model and the NHT learning model, it was proven that the  $t_{count}$  was greater than  $t_{table}$  ( $2.088 > 2.003$ )*

*Keywords: Effectiveness, Number Head Together (NHT).*