

PENGEMBANGAN MEDIA PEMBELAJARAN TRAINER PENGENDALIAN MOTOR LISTRIK 3 PHASE BERBASIS *SMART RELAY ZELIO* PADA MATA PELAJARAN INSTALASI MOTOR LISTRIK DI SMK NEGERI 1 SUSUT

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ABSTRAK

Penelitian ini bertujuan untuk membuat trainer pengendalian motor listrik 3 phase berbasis *smart relay zelio*, mengetahui kelayakan serta mengetahui respon peserta didik terhadap media pembelajaran trainer pengendalian motor listrik 3 phase berbasis *smart relay zelio* pada mata pelajaran instalasi motor listrik di jurusan Teknik Instalasi Tenaga Listrik SMK Negeri 1 Susut. Penelitian ini menggunakan metode penelitian dan pengembangan *Research and Development* (R&D). Pengumpulan data dalam penelitian ini dilakukan dengan metode angket/kuesioner yang dinilai oleh ahli isi, ahli media, dan Peserta didik SMK Negeri 1 Susut. Hasil penelitian diperoleh: hasil uji validasi dari ahli isi mendapatkan persentase 93,75 % termasuk kualifikasi sangat layak, hasil uji validasi ahli media mendapatkan persentase 97,73% termasuk kualifikasi sangat layak, hasil skor uji coba kelompok kecil dengan 5 responden semuanya termasuk kategori sangat baik, dan hasil rentang skor uji kelompok besar dengan 12 responden semuanya termasuk kategori sangat baik. Berdasarkan hasil penelitian, media pembelajaran Trainer Pengendalian Motor Listrik 3 Phase Berbasis *Smart Relay Zelio* layak digunakan pada proses pembelajaran Instalasi Motor Listrik.

Kata Kunci: *media pembelajaran, smart relay zelio, motor listrik*

DEVELOPMENT OF 3 PHASE ELECTRIC MOTOR CONTROL TRAINER LEARNING MEDIA BASED ON SMART RELAY ZELIO IN ELECTRIC MOTOR INSTALLATION LESSONS AT SMK NEGERI 1 SUSUT

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ABSTRACT

This study aims to create a three-phase electric motor control trainer based on smart relay zelio, to determine the feasibility and students' response toward the learning media of a three-phase electric motor control trainer based on smart relay zelio on Electrical Motor Installation's subject in Electrical Power Installation Engineering Department of SMK Negeri 1 Susut. This study used Research and Development (R&D) Method. In collecting the data, this study used a questionnaire that was assessed by content experts, media experts, and students of SMK Negeri 1 Susut. The result of the study obtained the result of the validity test from the content experts showed the percentage of 93,75 % categorized as very decent qualification, the result of validity test from media experts showed the percentage of 97,73% categorized as very decent qualification, the result of the validity test from the small group which consists of 5 respondents showed that all of them were categorized as excellent, and the results of the large group with 12 respondents showed that all in the excellent category. Based on the result of the study, the learning media of the 3 phase electric motor control trainer based on smart relay zelio is suitable to apply in the process of Electrical Motor Installation.

Keywords: *Learning media, smart relay zelio, electric motor*