

**PENGEMBANGAN *TRAINER KIT STAMPING STATION*
BERBASIS ZELIO SR3B261BD SEBAGAI MEDIA PEMBELAJARAN
INSTALASI MOTOR LISTRIK DI SMK NEGERI 1 PUNDONG**

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ABSTRAK

Penelitian ini bertujuan untuk: (1) menghasilkan *trainer kit stamping station* berbasis Zelio SR3B261BD sebagai media pembelajaran Instalasi Motor Listrik Di SMK Negeri 1 Pundong, (2) mengetahui unjuk kerja *trainer kit stamping station* berbasis Zelio SR3B261BD, dan (3) mengetahui tingkat kelayakan *trainer kit stamping station* berbasis Zelio SR3B261BD.

Penelitian ini merupakan jenis penelitian dan pengembangan dengan menggunakan model ADDIE adaptasi menurut Lee & Owens. Subjek penelitian ini adalah siswa kompetensi keahlian Teknik Instalasi Tenaga Listrik SMK Negeri 1 Pundong. Pengumpulan data menggunakan instrumen angket dengan skala *likert* dengan 4 pilihan jawaban. Teknik analisis data menggunakan teknik analisis deskriptif kuantitatif.

Berdasarkan hasil penelitian diperoleh: (1) media pembelajaran *trainer kit stamping station* berbasis Zelio SR3B261BD, dengan spesifikasi utama modul Zelio SR3B261BD sebagai kontroler, sensor warna TCS230, sensor *proximity*, motor dc dan motor *door lock*, serta dihasilkan manual operation, handout, dan jobsheet, (2) unjuk kerja *trainer kit* tergolong sangat baik yang ditunjukkan sistem dapat berjalan melakukan proses stampel kode warna merah saat sensor warna mendeteksi benda berwarna merah dan melakukan proses stampel kode warna hijau saat sensor warna mendeteksi benda berwarna hijau dengan waktu yang dibutuhkan untuk satu kali proses rata-rata 8,3 detik, (3) tingkat kelayakan media pembelajaran *trainer kit stamping station* berbasis Zelio SR3B261BD dari segi media termasuk dalam kategori sangat layak dengan diperoleh nilai rata-rata uji kelayakan oleh ahli media sebesar 86,5 dengan persentase 94,02%, sedangkan dari segi materi masuk dalam kategori layak dengan diperoleh nilai rata-rata uji kelayakan oleh ahli materi sebesar 74 dengan persentase 84,09%. Dan dari segi pengguna masuk dalam kategori layak dengan diperoleh nilai rata-rata uji pengguna sebesar 69,8 dengan persentase 83,1%.

Kata kunci: *trainer kit stamping station*, Zelio SR3B261BD, media pembelajaran

**DEVELOPMENT OF TRAINER KIT STAMPING STATION
BASED ON ZELIO SR3B261BD AS A LEARNING MEDIA OF
ELECTRIC MOTOR INSTALLATION IN SMK NEGERI 1 PUNDONG**

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ABSTRACT

This research aims to: (1) produce a trainer kit stamping station based on Zelio SR3B261BD as a learning media for Electric Motor Installation at SMK 1 Pundong, (2) find out the performance of a trainer kit stamping station based on Zelio SR3B261BD, and (3) determine the feasibility of trainer kit stamping station based on Zelio SR3B261BD.

This research is a type of research and development using the ADDIE adaptation model according to Lee & Owens. The subjects of this research were students of expertise in Electrical Power Engineering expertise at SMK Negeri 1 Pundong. Data collection uses questionnaire instruments with Likert scale with 4 answer choices. The data analysis technique uses quantitative descriptive analysis techniques.

Based on the research results obtained: (1) learning media trainer kit stamping station based on Zelio SR3B261BD, with the main specifications of the Zelio SR3B261BD module as a controller, TCS230 color sensor, proximity sensor, dc motor and door lock motor, as well as manual operation, handouts, and jobsheets, (2) the performance of the trainer kit is very good as shown by the system can run the process of the red code stamp when the color sensor detects red objects and processes the green code stamp when the color sensor detects green objects, (3) the level of feasibility of the learning media trainer kit stamping station based on Zelio SR3B261BD in terms of the media included in the very feasible category by obtaining the average value of the feasibility test by media experts amounting to 86.5 with a percentage of 94.02%, while in terms of material included in the feasible category by obtaining the average feasibility test by material experts at 74 with a percentage of 84.09%. And in terms of users included in the feasible category by obtaining a user average test value of 69.8 with a percentage of 83.1%.

Keyword: trainer kit stamping station, Zelio SR3B261BD, learning media