

ABSTRAK

JAGAR IWAN PANGGABEAN. NIM. 5183131017. Pengembangan Trainer Instalasi Motor Listrik Tiga Phasa pada Mata Pelajaran Instalasi Motor Listrik Kelas XI TITL SMK Swasta Dwarna Medan

Tujuan Penelitian ini untuk: (1) Untuk mengetahui bagaimana respon siswa pada pengembangan *trainer* instalasi motor listrik tiga phasa pada mata pelajaran instalasi motor listrik kelas XI TITL SMK Swasta Dwarna Medan. (2) Untuk mengetahui hasil dari pengembangan *trainer* instalasi motor listrik tiga phasa yang akan dibuat pada mata pelajaran instalasi motor listrik kelas XI TITL SMK Swasta Dwarna Medan. (3) Untuk mengetahui bagaimana tingkat kelayakan pengembangan *trainer* instalasi motor listrik tiga phasa tersebut pada mata pelajaran instalasi motor listrik kelas XI TITL SMK Swasta Dwarna Medan. Jenis penelitian yang digunakan adalah *Research and Development* (R&D) dengan model penelitian ADDIE. Model penelitian ADDIE meliputi lima tahapan yaitu pertama *analysis*, *design*, *development*, *implementation* dan *evaluation*. Instrumen yang digunakan pada penelitian ini adalah angket uji kelayakan dan angket respon pengguna. Validitas yang digunakan berdasarkan pendapat dari dua Ahli Materi dan dua Ahli Media. Hasil penelitian ini dapat diketahui: (1) Penelitian pengembangan ini menghasilkan produk berupa media pembelajaran Pengembangan Trainer Instalasi Motor Listrik Tiga Phasa pada Mata Pelajaran Instalasi Motor Listrik Kelas XI TITL SMK Swasta Dwarna Medan. (2) Kelayakan media pembelajaran media pembelajaran *Trainer* Instalasi Motor Listrik Tiga Phasa ditinjau dari ahli materi mendapat skor 90% dari persentase maksimum sebesar 100% dan dikategorikan “**Sangat Layak**”. ditinjau dari ahli media mendapat skor 93,75% dari persentase maksimum sebesar 100% dan dikategorikan “**Sangat Layak**”. Hasil respon pengguna (siswa) dengan kategori “**Sangat Layak**” memperoleh rata-rata persentase skor 92,25%.

Kata Kunci : Pengembangan, Trainer, ADDIE, Instalasi Motor Listrik Tiga Phasa

ABSTRACT

JAGAR IWAN PANGGABEAN. NIM. 5183131017. *Development of Three-Phase Electric Motor Installation Trainer in the Class XI TITL Electric Motor Installation subjects SMK Swasta Dwarna Medan*

The aim of this research is: (1) To find out how students respond to the development of a three-phase electric motor installation trainer in the electric motor installation subject class XI TITL SMK Swasta Medan. (2) To find out the results of the development of a three-phase electric motor installation trainer which will be made in the electric motor installation subject class XI TITL SMK Swasta Medan. (3) To find out the feasibility level of developing a three-phase electric motor installation trainer for the class The type of research used is (R&D) with the ADDIE research model. The ADDIE research model includes five stages, analysis, design, development, implementing and evaluation. The instruments used in this research were a feasibility test questionnaire and a user response questionnaire. The validity used is based on the opinions of two Material Experts and two Media Experts. The results of this research can be seen: (1) This research development produced a product in the form of learning media for the Development of a Three-Phase Electric Motor Installation Trainer in the XI TITL SMK Swasta Medan. (2) The feasibility of the learning media for the Three Phase Electric Motor Installation Trainer learning media, reviewed by material experts, received a score of 90% of the maximum percentage of 100% and was categorized as "**Very Feasible**". reviewed by media experts, it received a score of 93,75% of the maximum percentage of 100% and was categorized as "**Very Decent**". The results of user (student) responses in the "**Very Decent**" category obtained an average percentage score of 92,25%.

Keywords: *Development, Trainer, ADDIE, Three Phase Electric Motor Installation*