

**PENGEMBANGAN PROGRAM TUTORIAL VIDEO PEMBELAJARAN
PEKERJAAN DASAR ELEKTROMEKANIK
DI SMK HAMONG PUTERA PAKEM**

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ABSTRAK

Penelitian ini bertujuan untuk : (1) Mengetahui kelayakan program tutorial video pembelajaran dasar elektromekanik menurut ahli materi dan ahli media. (2) Mengetahui hasil kelayakan uji coba kemanfaatan ditinjau dari tanggapan siswa terhadap program video pembelajaran dasar elektromekanik di SMK Hamong Putera Pakem.

Penelitian ini merupakan jenis penelitian dan pengembangan dengan konsep 10 langkah Brog and Gall yaitu: *Research and information collecting, Planning, Develop preliminary form a product, Preliminary field testing, Main product revision, Main field testing, Operational product revision, Operational field testing, final product revision, dan Dissemination and implementation*. Penelitian dan pengembangan dilaksanakan di SMK Hamong Putera Pakem, Sleman dan Teknik Elektro UNY. Subjek penelitian adalah siswa kelas X keahlian TITL SMK Hamong Putera Pakem. Instrumen berupa angket dengan skala likert 4 untuk memperoleh data kelayakan pengembangan program tutorial video pembelajaran pekerjaan dasar elektromekanik. Validitas instrumen dilakukan dengan *expert judgement*, sedangkan uji kelayakan menggunakan analisis data menggunakan rerata skor yang kemudian dikonversikan.

Hasil dari penelitian ini adalah : (1) Tingkat kelayakan menurut ahli materi dikategorikan **layak** dengan perolehan rerata total skor 33.00 dengan persentase 75%. (2) Tingkat kelayakan menurut ahli media dikategorikan **sangat layak** dengan perolehan rerata total skor 41.00 dengan persentase 85%. (3) Pada pengujian pengguna satu lawan satu mendapatkan rerata total skor 78.00 dengan persentase 85% dan dikategorikan **sangat layak**. Pada pengujian pengguna kelompok kecil mendapatkan rerata total skor 75.00 dengan persentase 82% dan dikategorikan **sangat layak**. Pengujian dilanjutkan pada uji lapangan dengan jumlah 29 siswa dikategorikan **layak** dengan perolehan rerata total skor 72.10 dengan persentase 78%. Sehingga media pembelajaran Program Tutorial Video Pembelajaran Pekerjaan Dasar Elektromekanik **layak** untuk digunakan sebagai media pembelajaran pada mata Pelajaran dasar elektromekanik kelas X keahlian TITL SMK Hamong Putera Pakem.

Kata kunci : *Pengembangan, Video Pembelajaran, Elektromekanik.*

DEVELOPMENT OF BASIC ELECTROMECHANICAL LEARNING VIDEO TUTORIAL PROGRAM AT SMK HAMONG PUTERA PAKEM

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ABSTRACT

The objectives of this research are: (1) to know the feasibility of learning video tutorial of basic electromechanical work based on material expert and media expert. (2) to know the feasibility of learning video tutorial benefits based on student response in SMK Hamong Putera Pakem.

The type of research used in this study is research and development using ten steps that developed by Borg and Gall: Research and information, Planning, Develop preliminary form a product, Preliminary field testing, Main product revision, Main field testing, Operational product revision, Operational field testing, Final product revision, and Dissemination and implementation. The research and development were conducted at SMK Hamong Putera Pakem and Faculty of Engineering at UNY. The subject of this research is student of grade X on Technical Installation of Electricity SMK Hamong Putera Pakem. The instrument of this research consists of questionnaire using four Likert scale to obtain properness data of development of learning video tutorial of basic electromechanical work. The instrument validity based on expert judgement, for the feasibility test based on data analysis using average score.

The result showed that: (1) The level of feasibility according to material experts is categorized as feasible with the average score of 33.00 with a percentage of 75%. (2) The level of feasibility according to media experts is categorized as very feasible with the average score of 41.00 with a percentage of 85%. (3) In testing one by one users get a mean total score of 78.00 with a percentage of 85% and categorized as very feasible. In testing small group users get a mean total score of 75.00 with a percentage of 82% and categorized as very feasible. The test continued on the field test with the number of 29 students categorized as feasible with the average score of 72.10 with a percentage of 78%. So that the learning media of the Electromechanical Basic Learning Video Tutorial Program is feasible to be used as a learning media on the basic electromechanical subject of grade X expertise of Technical Installation of Electricity SMK Hamong Putera Pakem.

Keywords: development, learning video, electromechanic.