

ABSTRAK

Herbin Publius, Nim. 5203122001. *Pengembangan Media Pembelajaran Pemeliharaan Mesin Kendaraan Ringan Menggunakan Berbasis Project Based Learning (PjBL) Menggunakan Aplikasi Canva di Kelas XI SMK Negeri 1 Percut Sei Tuan. Skripsi. Fakultas Teknik, Universitas Negeri Medan. 2022.*

Penelitian ini bertujuan menganalisis: (1) proses pengembangan media pembelajaran pemeliharaan mesin kendaraan ringan berbasis *Project Based Learning* (PjBL) menggunakan aplikasi Canva di kelas XI SMK Negeri 1 Percut Sei Tuan, (2) kelayakan media pembelajaran pemeliharaan mesin kendaraan ringan berbasis *Project Based Learning* (PjBL) menggunakan aplikasi Canva di kelas XI SMK Negeri 1 Percut Sei Tuan, (3) efektivitas media pembelajaran pemeliharaan mesin kendaraan ringan berbasis *Project Based Learning* (PjBL) menggunakan aplikasi Canva di kelas XI SMK Negeri 1 Percut Sei Tuan. Penelitian dilaksanakan pada siswa kelas XI di SMK Negeri 1 Percut Sei Tuan. Jenis penelitian ini adalah *Research and Development* menggunakan model ADDIE. Sampel penelitian uji efektivitas terdiri dari 20 siswa kelas XI TKR. Penilaian ahli media terhadap media ini mencapai rata-rata 100% dengan kategori sangat layak, penilaian ahli desain mencapai 92,56% dengan kategori "Sangat Layak" dan penilaian ahli materi mencapai 93,33%. Kelayakan media pembelajaran pemeliharaan mesin kendaraan ringan pada materi pemeriksaan komponen utama *engine* memperoleh rata-rata penilaian 95,29% dengan kategori sangat layak, dengan beberapa catatan perbaikan yang diberikan oleh ahli validasi. Hasil *pre-test* di awal diperoleh rata-rata 46,75 dengan 90% siswa tidak lolos KKM, dan *post-test* di akhir proses pembelajaran diperoleh rata-rata 88,5 dengan seluruh siswa lolos KKM. Hasil penelitian yang diperoleh untuk uji efektivitas media pembelajaran pemeliharaan mesin kendaraan ringan terjadi peningkatan hasil belajar siswa sebesar 78,40%.

Kata kunci: Media pembelajaran, *Project Based Learning* (PjBL), Canva, pemeliharaan mesin kendaraan ringan, pemeriksaan komponen utama *engine*.



ABSTRACT

Herbin Publius, Student ID. 5203122001. Development of Learning Media for Light Vehicle Engine Maintenance Using Project Based Learning (PjBL) Approach with Canva Application in Class XI of SMK Negeri 1 Percut Sei Tuan. Thesis. Faculty of Engineering, Universitas Negeri Medan. 2022.

This research aims to analyze: (1) the development process of learning media for light vehicle engine maintenance based on Project-Based Learning (PjBL) using Canva in Class XI of SMK Negeri 1 Percut Sei Tuan, (2) the feasibility of the learning media for light vehicle engine maintenance based on PjBL using Canva in Class XI of SMK Negeri 1 Percut Sei Tuan, and (3) the effectiveness of the learning media for light vehicle engine maintenance based on PjBL using Canva in Class XI of SMK Negeri 1 Percut Sei Tuan. The research was conducted on Class XI students at SMK Negeri 1 Percut Sei Tuan. This study is classified as Research and Development using the ADDIE model. The effectiveness test sample consisted of 20 students from Class XI TKR. The media expert's assessment of this learning media reached an average score of 100% in the "Very Feasible" category, the design expert's assessment reached 92.56% in the "Very Feasible" category, and the material expert's assessment reached 93.33%. The feasibility of the learning media for light vehicle engine maintenance on the main engine component inspection material obtained an average rating of 95.29% in the "Very Feasible" category, with some improvement notes provided by the validation experts. The initial pre-test results showed an average score of 46.75, with 90% of students not meeting the minimum passing criteria (KKM), while the post-test results at the end of the learning process showed an average score of 88.5, with all students meeting the KKM. The research findings indicate that the effectiveness test of the learning media for light vehicle engine maintenance led to an improvement in students' learning outcomes by 78.40%.

Keywords: Learning media, Project Based Learning (PjBL), Canva, light vehicle engine maintenance, engine component inspection.