

## ABSTRAK

Cancara Nababan : *Penerapan Model Pembelajaran Berbasis Proyek (Project Based Learning) Untuk Meningkatkan Hasil Belajar Troubleshooting Sistem Bahan Bakar Electronic Fuel Injection (EFI) Siswa Kelas XI Teknik Sepeda Motor (TSM) SMK Swasta Siloam 1 Medan*. Skripsi. Fakultas Teknik Universitas Negeri Medan. 2016

Tujuan penelitian ini adalah: Untuk mengetahui peningkatkan hasil belajar dan aktivitas siswa pada mata pelajaran Melakukan Perbaikan Sistem Bahan Bakar Bensindengan menggunakan model *Project Based Learning* pada materi troubleshooting sistem bahan bakar *Electronic Fuel Injection (EFI)*. Jenis penelitian ini adalah penelitian tindakan kelas (*Classroom Action Research*). Subjek dari penelitian ini adalah siswa kelas XI SMK Swasta Siloam1 Medan sebanyak 22 orang. Objek penelitian ini adalah model *Project Based Learning* pada materi troubleshooting sistem bahan bakar *Electronic Fuel Injection (EFI)*. Berdasarkan hasil analisis data hasil belajar siklus I diperoleh 14 siswa (63,7%) telah mencapai ketuntasan belajar dan 8 siswa (36,3%) lainnya belum tuntas. Nilai rata-rata kelas 69 dengan tingkat ketuntasan secara klasikal sebesar 63,7%. Pada siklus II yang merupakan perbaikan pembelajaran yang telah diberikan pada siklus I, dari hasil tes belajar siklus II diperoleh 18 siswa (81,8%) telah mencapai ketuntasan belajar dan 4 siswa (18,2%) lainnya belum tuntas. Nilai rata-rata kelas meningkat menjadi 73,4 dengan tingkat ketuntasan belajar secara klasikal sebesar 81,8%. Jika dibandingkan data dari siklus I dan siklus II maka diperoleh nilai rata-rata pada 14 siswa disiklus I bertambah sebanyak 4 siswa disiklus II menjadi 18 siswa, sedangkan siswa yang tidak tuntas dalam belajar berkurang dari 8 siswa yang tidak tuntas disiklus I menjadi 4 siswa di siklus II. Karena telah memenuhi kriteria ketuntasan belajar siswa dan mengalami peningkatan dari siklus I dan siklus II maka dapat disimpulkan bahwa model *Project Based Learning* dapat meningkatkan hasil belajar siswa pada materi troubleshooting sistem bahan bakar *Electronic Fuel Injection (EFI)*.

Kata Kunci: Hasil Belajar, Melakukan Perbaikan Sistem Bahan Bakar Bensin, Model Project Based Learning, Penelitian Tindakan Kelas.

## ABSTRACT

Cancara Nababan : *Applies The Project Based Learning To Improve The Result Of Study, Troubleshooting Fuel System Injection (EFI) The Student XI Motorcycle Technic ( TSM) SMK Private Of Siloam 1 Medan.* Thesis. Faculty Of Engineering State University Of Medan. 2016

The purpose of this research are: To improve the result of student's study in the subject to do revision fuel of gasoline and knowing how far the improving the activity and skill of the students by using the project based learning mode in troubleshooting Electronic fuel injection material (EFI). This kind of research is classroom action research. The subject of this research is the student XI SMK Private Siloam 1 Medan such 22 person. The object of this research is to improve the result of student's study by using project based learning mode in electronic fuel injection material (EFI). Based on the results of the data analysis of the first cycle of learning outcomes obtained by 14 students (63.7%) have achieved mastery learning and 8 students (36.3%) Other unfinished. The average value of the 69 classes in classical completeness level of 63.7%. In the second cycle which is an revision of learning that has been given in the first cycle, from studying the second cycle test results obtained by 18 students (81.8%) have achieved mastery learning and 4 students (18,2%) Other unfinished. The average value increased to 73,4 class with classical learning completeness level of 81,8%. When compared to data from the first cycle and the second cycle of the obtained average value of the 14 students in the first cycle increased by 4 students cycled II to 18 students, while the students who completed the study was reduced from 8 students who did not complete in the first cycle to 4 students in the second cycle. Because it has met the criteria of mastery learning students and has increased from the first cycle and the second cycle, it can conclude that the model of Project Based Learning can improve the result of student's study in troubleshooting Electronic fuel injection material (EFI).

Keywords: The result to do the revision of fuel system gasoline, Model Project Based Learning, Classroom Action Research.