

## ABSTRAK

Eko Budianto Sinaga. NIM:5133122008. *Analisis Hasil Belajar Siswa Yang Diajarkan Dengan Model Pembelajaran Project Based Learning Dan Problem Based Learning Pada Mata Pelajaran Sasis Dan Pemindah Tenaga Teknik Kendaraan Ringan Kelas XI TKRO Di SMK Mandiri Percut Sei Tuan Tahun Ajaran 2018/2019 Dan 2019/2020. Skripsi.* Fakultas Teknik Universitas Negeri Medan 2020.

Penelitian ini dilakukan untuk mengetahui perbedaan penerapan model pembelajaran *Project Based Learning* (PjBL) dan *Problem Based Learning* (PBL) terhadap hasil belajar pemeliharaan sasis dan pemindah tenaga kompetensi dasar perawatan sistem transmisi kelas XI TKR di SMK Mandiri Percut Sei Tuan tahun ajaran 2018/2019 dan 2019/2020. Metode penelitian ini adalah metode komparasi atau *Exs. Post facto*. Instrumen penelitian menggunakan tes pilihan ganda sebanyak 40 soal. Teknik analisis data melalui uji normalitas dan uji homogenitas dengan menggunakan SPSS 16. Analisis data tersebut dilanjutkan dengan uji *One Sample T Test* dan uji *independent Sample T Test*. Uji *One Sample T Test* diperoleh hasil rata-rata pada PjBL = 78,00, sedangkan nilai rata-rata PBL = 74,46 sehingga dapat disimpulkan nilai rata-rata PjBL > PBL, maka dengan ini  $H_0$  ditolak. Uji *independent Sample T Test* diperoleh nilai signifikansi (Sig. (2-tailed)) dari hasil belajar PjBL dan PBL sebesar 0,048, sehingga dapat disimpulkan  $0,048 < 0,05$ , maka dengan ini  $H_0$  ditolak. Hal ini menunjukkan bahwa pembelajaran yang diajarkan dengan model pembelajaran *project based learning* memberikan pengaruh yang signifikan terhadap hasil belajar pemeliharaan sasis dan pemindah tenaga.

Kata Kunci : *model pembelajaran, hasil belajar, pemindah tenaga, transmisi*



## ABSTRACT

Eko Budianto Sinaga. NIM:5133122008. *Student Learning Outcomes Analyst Taught with Project Based Learning and Problem Based Learning Models in Chassis and Light Vehicle Engineering Personnel Subjects for Class XI TKRO at SMK Mandiri Percut Sei Tuan for 2018/2019 and 2019/2020 academic years.* **Thesis.** Faculty of Engineering, State University of Medan 2020.

This research was conducted to determine the differences in the application of the Project Based Learning (PjBL) and Problem Based Learning (PBL) learning models on learning outcomes of chassis maintenance and transfer of personnel for basic competency maintenance of transmission system class XI TKR at SMK Mandiri Percut Sei Tuan 2018/2019 academic year and 2019/2020. This research method is the comparative method or Exs. Post facto. The research instrument used a multiple choice test of 40 questions. The data analysis technique was through normality test and homogeneity test using SPSS 16. The data analysis was continued with the One Sample T Test and the independent Sample T Test. The One Sample T Test obtained an average result at PjBL = 78.00, while the average value of PBL = 74.46 so that it can be concluded that the average value of PjBL > PBL, thus Ho is rejected. The independent Sample T Test obtained a significance value (Sig. (2-tailed)) from the PjBL and PBL learning outcomes of 0.048, so it can be concluded that  $0.048 < 0.05$ , thus Ho is rejected. This shows that the lessons taught by the project based learning model have a significant effect on learning outcomes for chassis maintenance and power transfer.

**Keywords:** *learning model, learning outcomes, power transfer, transmission*

