

## ABSTRAK

Muhammad Reza Saputra Nasution, 5183122013 : Pengaruh Model Pembelajaran *Problem Based Learning* (PBL) Terhadap Hasil Belajar Pemeliharaan Chasis dan Pemindah Tenaga pada Siswa Kelas XI Teknik Kendaraan Ringan SMK Negeri 14 Medan Tahun Ajaran 2022/2023. Skripsi. Fakultas Teknik Universitas Negeri Medan. 2023.

Tujuan penelitian ini adalah untuk membandingkan hasil belajar siswa yang menggunakan model *Problem Based Learning* (PBL) dan yang menggunakan model *Discovery Learning* (DL). Dua kelas pada penelitian ini mendapatkan perlakuan yang berbeda-beda. Tes diberikan pada kedua kelas sebelum dan sesudah perlakuan untuk mengetahui hasil belajar mata pelajaran chasis dan pemindah tenaga. Desain dua kelompok, sebelum dan sesudah tes digunakan untuk penelitian ini. Hasil Penelitian menunjukkan bahwa untuk kelas XI TKR SMK Negeri 14 Medan hasil belajar posttest siswa pada mata pelajaran program keahlian TKR dengan menggunakan model pembelajaran *Problem Based Learning* rata-rata sebesar 85, standar deviasi yaitu 6,77, nilai minimum 75 dan nilai maksimum 95. Siswa kelas XI program keahlian TKR di SMK Negeri 14 Medan mencapai rata-rata hasil belajar posttest sebesar 72,60 dengan menggunakan model pembelajaran *Discovery Learning*, serta standar deviasi yaitu 8,55, nilai minimum 60 dan nilai maksimum 85. Terdapat perbedaan hasil belajar program keahlian TKR yang diajarkan dengan model pembelajaran *Problem Based Learning* dan *Discovery Learning* terhadap hasil belajar siswa kelas XI TKR di SMK Negeri 14 Medan. Hal ini terbukti dari hasil pengujian hipotesis yaitu  $t_{hitung} > t_{tabel}$  ( $6,137 > 1,296$ )

Kata Kunci : Hasil Belajar, Problem Based Learning, Discovery Learning, Chasis dan Pemindah Tenaga



## ABSTRACT

Muhammad Reza Saputra Nasution, 5183122013 : The Effect of the Problem Based Learning (PBL) Learning Model on Learning Outcomes of Chassis and Power Shifter Maintenance in Grade XI Students of Light Vehicle Engineering at SMK Negeri 14 Medan in the 2022/2023 Academic Year. Thesis. Faculty of Engineering, Medan State University. 2023.

This study aims to determine differences in learning outcomes between students who study using the Problem Based Learning (PBL) model and students who learn using the Discovery Learning (DL) model. This study involved 2 classes that had different treatments to find out the learning outcomes of the chassis and power transfer subjects. Tests were carried out in the two classes before and after being given treatment. The research design used was a two group pre test post test design. The results showed that student learning outcomes in TKR expertise program subjects using the Problem Based Learning learning model for class XI TKR at SMK Negeri 14 Medan obtained an average posttest learning result of 85, the standard deviation was 6.77, the minimum score was 75 and the score maximum 95. Student learning outcomes in TKR expertise program subjects using the Discovery Learning learning model for class XI TKR at SMK Negeri 14 Medan obtained an average posttest learning outcome of 72.60, a standard deviation of 8.55, a minimum score of 60 and a maximum 85. There are differences in the learning outcomes of the TKR expertise program which are taught using the Problem Based Learning and Discovery Learning learning models on the learning outcomes of class XI TKR students at SMK Negeri 14 Medan. This is evident from the results of hypothesis testing, namely  $t_{count} > t_{table}$  ( $6.137 > 1.296$ )

Keywords: Learning Outcomes, Problem Based Learning, Discovery Learning, Chassis and Power Transfer