

ABSTRAK

M. RIDHO. NIM. 5173131014. Pengaruh Model Belajar Problem Based Learning Terhadap Hasil Belajar Siswa Mata Pelajaran Teknik Instalasi Penerangan Listrik Kelas XII SMK Negeri 2 Medan. Semester Genap. Skripsi Medan : Fakultas Teknik.

Tujuan penelitian untuk melihat hasil belajar siswa pada Mata Pelajaran Teknik Instalasi Penerangan Listrik dengan menggunakan model pembelajaran Problem Based Learning di Kelas XII SMK Negeri 2 Medan, hasil belajar siswa pada Mata Pelajaran Teknik Instalasi Penerangan Listrik dengan menggunakan model pembelajaran konvensional di Kelas XII SMK Negeri 2 Medan dan kondisi hasil belajar siswa pada Mata Pelajaran Teknik Instalasi Penerangan Listrik dengan menggunakan model pembelajaran Problem Based Learning lebih tinggi jika dibandingkan dengan menggunakan model pembelajaran konvensional di Kelas XII SMK Negeri 2 Medan. Penelitian ini dilaksanakan di SMK Negeri 2 Medan yang beralamat di JL. STM NO. 12 A Medan, Sitirejo Ii, Kec. Medan Amplas, Kota Medan Prov. Sumatera Utara. Sampel penelitian menggunakan *random sampling* dilakukan undian kepada setiap ketua kelas sehingga dapatlah Sampel penelitian yaitu kelas XII-TITL4 berjumlah 35 orang (kelas eksperimen) dan XII-TITL1 berjumlah 35 orang (kelas kontrol). Desain penelitian ini menggunakan *pre test – post test control group design* Dari Hasil perhitungan data kelompok PBL dan kelompok konvensional diatas diperoleh thitung = 12,83 Dari daftar distribusi t dengan menggunakan peluang $1-\alpha = 0,95$ dengan dk = $(35+35 -2)$ diperoleh harga ttabel = 1,66. Maka $12,83 > 1,66$. Sehingga hipotesis yang menyatakan Hasil belajar siswa model problem based learning lebih besar dari pada hasil belajar siswa pada model konvensional untuk mata Pelajaran teknik instalasi penerangan Listrik kelas XII SMK Negeri 2 Medan.

Kata Kunci : *Problem Based Learning*, Hasil Belajar dan Teknik Instalasi Penerangan Listrik.



ABSTRACT

M. RIDHO. NIM. 5173131014. The Effect of Problem Based Learning Model on Student Learning Outcomes in Electrical Lighting Installation Technique Subject of Class XII SMK Negeri 2 Medan. Even Semester. Thesis Medan: Faculty of Engineering.

The purpose of the study was to see the learning outcomes of students in the Electrical Lighting Installation Technique Subject using the Problem Based Learning learning model in Class XII SMK Negeri 2 Medan, the learning outcomes of students in the Electrical Lighting Installation Technique Subject using the conventional learning model in Class XII SMK Negeri 2 Medan and the condition of student learning outcomes in the Electrical Lighting Installation Technique Subject using the Problem Based Learning learning model is higher when compared to using the conventional learning model in Class XII SMK Negeri 2 Medan. This research was conducted at SMK Negeri 2 Medan which is located at JL. STM NO. 12 A Medan, Sitirejo II, Kec. Medan Amplas, Medan City, North Sumatra Province. The research sample used random sampling by drawing lots to each class leader so that the research sample was class XII-TITL4 totaling 35 people (experimental class) and XII-TITL1 totaling 35 people (control class). The design of this study used a pre-test - post-test control group design. From the results of the calculation of the PBL group data and the conventional group above, $t_{count} = 12.83$ was obtained. From the t distribution list using the probability of $1-\alpha = 0.95$ with $dk = (35 + 35 - 2)$ the ttable price was obtained = 1.66. Then $12.83 > 1.66$. So the hypothesis that states that the learning outcomes of students with the problem based learning model are greater than the learning outcomes of students in the conventional model for the Electrical Lighting Installation Technique subject of class XII of SMK Negeri 2 Medan.

Keywords: Problem Based Learning, Learning Outcomes and Electrical Lighting Installation Techniques.