

## ABSTRAK

DWI SUANGGA : Perbedaan Hasil Belajar Siswa Yang Di Ajar Dengan Model Pembelajaran *Teaching Factory* Dan *Project Based Learning* Pada Mata Pelajaran Pemeliharaan Mesin Sepeda Motor Pada Kelas XI SMK Negeri 1 Lubuk Pakam Tahun Ajaran 2019/2020, **skripsi**. Fakultas Teknik Universitas Negeri Medan 2020.

Penelitian ini bertujuan untuk mengetahui perbedaan menggunakan model pembelajaran *Teaching Factory* dan *Project Based Learning* terhadap hasil belajar pemeliharaan mesin sepeda motor kelas XI negeri 1 Lubuk Pakam. Jenis penelitian ini adalah quasi eksperimen dengan desain penelitian *Two group pretest-posttest design*. Populasi dalam penelitian ini adalah siswa kelas XI. Pengambilan sampel di lakukan dengan cara teknik random sampling yaitu kelas XI TSM A berjumlah 26 siswa sebagai kelas eksperimen 1 diberi perlakuan dengan model *Teaching Factory* dan kelas XI TSM B berjumlah 23 siswa sebagai kelas eksperimen 2 diberi perlakuan dengan *Project Based Learning*. Instrument yang digunakan yaitu tes hasil belajar dalam bentuk pilihan ganda dengan jumlah 28 soal. Sebelum dilakukan tes pada kedua kelas tersebut, terlebih dahulu diberikan perlakuan yang berbeda pada masing-masing kelas dalam jangka waktu dan pertemuan yang sama. Dari hasil penelitian diperoleh bahwa terdapat perbedaan hasil belajar siswa antara yang diajarkan menggunakan model pembelajaran *Teaching Factory* dan *Project Based Learning* pada mata pelajaran Pemeliharaan Mesin Sepeda Motor siswa kelas XI SMK Negeri 1 Lubuk Pakam. Hal ini ditunjukkan bahwa  $t_{hitung} > t_{tabel}$  yaitu  $3,938 > 2,011$  sehingga  $H_0$  ditolak dan  $H_a$  diterima, sehingga dapat disimpulkan hasil belajar siswa yang diajarkan dengan model pembelajaran *Teaching Factory* lebih tinggi dibandingkan *Project Based Learning*.

Kata Kunci: Model Pembelajaran, *Teaching Factory*, *Project Based Learning*, Hasil Belajar, Pemeliharaan Mesin Sepeda Motor.



## ABSTRACT

DWI SUANGGA : Differences of Student Learning Outcomewhich is taught by *Teaching Factory* Learning Model and *Project Based Learning*Model on Motorcycle Engine Maintenance Subject in grade XI of SMK Negeri 1 Lubuk Pakam Academic Year 2019/2020, thesis. Faculty of Engineering, Medan State University 2020.

This study aims to determine the differences in the use of the *Teaching Factory* learning model and *Project Based Learning* model towards the learning outcomes of motorcycle engine maintenance subjectin grade XI ofSMK Negeri 1 Lubuk Pakam. This type of research is a quasi-experimental research with *two groups pretest-posttest design*.The population of this study are the students grade XI. Sampling was done by random sampling technique, they are 26 students of class XI TSM A as the experimental class 1 was treated with the *Teaching Factory* model and 23 students of class XI TSM B as experimental class 2 was treated with *Project Based Learning*.The instrument used is28 questions of learning outcomes test in the form of multiple choice. Before the tests were conducted in both groups, they were given the different treatment in each class, but in the same time period andthe same meeting. From the results of this study, it was found that there are the differences learning outcomesbetween the students who are taught using the *Teaching Factory* learning model and *Project Based Learning* model on the subject of Motorcycle Engine Maintenance in students grade XI of SMK Negeri 1 LubukPakam.This is shown that  $t_{hitung} > t_{tabel}$  it is  $3,938 > 2,011$  so that  $H_0$  is rejected and  $H_a$  is accepted, so it can be concluded that the learning outcomes of students which are taught by the *Teaching Factory* learning model are better than *Project Based Learning*.

Keywords: Learning Model, Teaching Factory, Project Based Learning, Learning Outcomes, Motorcycle Engine Maintenance.