

ABSTRAK

Rizky Ferdiansyah (5202121003) : Upaya Peningkatan Hasil Belajar Teknik Pengelasan *SMAW* dengan Menerapkan Model Pembelajaran *Project Based Learning* Pada Siswa Kelas XI TPL Di SMK Negeri 1 Percut Sei Tuan T.A 2024/2025. Program Studi Pendidikan Teknik Mesin. Fakultas Teknik. Universitas Negeri Medan. 2025.

Penelitian ini bertujuan untuk meningkatkan hasil belajar siswa pada mata pelajaran Teknik pengelasan *SMAW* pada kelas XI TPL di SMK Negeri 1 Percut Sei Tuan Tahun Pembelajaran 2024/2025. Penelitian ini menggunakan metode penelitian tindakan kelas (PTK) yang dilakukan sebanyak dua siklus. Setiap siklus terdiri dari empat tahap yaitu : Perencanaan, Pelaksanaan kegiatan dan pengamatan, Observasi, dan Refleksi/tindakan. Lokasi penelitian di SMK Negeri 1 Percut Sei Tuan. Waktu penelitian ini pada bulan November 2024. Populasi dalam penelitian ini adalah seluruh siswa kelas XI TPL dengan berjumlah 25 orang. Teknik pengambilan sampel ini dilakukan dengan menggunakan *total sampel*. Sehingga jumlah sampel sebanyak 25 orang. Teknik pengumpulan data dilakukan dengan teknik observasi, tes, dan wawancara. Hasil penelitian menunjukkan bahwa pada pra siklus siswa yang mendapatkan nilai tuntas masih rendah berjumlah 4 orang dengan nilai persentase 16 % dengan nilai rata-rata berjumlah 69,12. Selanjutnya pada tindakan siklus I memiliki nilai yang cukup meningkat dengan jumlah siswa yang tuntas 12 siswa dengan persentasi 48 % dan nilai rata-rata 74,64. Kemudian dilakukan tindakan siklus II memperoleh nilai ketuntasan yang sangat meningkat dengan jumlah rata-rata 83,6 dan persentase siswa yang tuntas berjumlah 92%. Sehingga dapat disimpulkan bahwa penggunaan model pembelajaran *Project Based Learning* ini dapat meningkatkan hasil belajar teknik pengelasan *SMAW* pada siswa kelas XI TPL di SMK Negeri 1 Percut Sei Tuan T.A 2024/2025.

Kata Kunci : Model Pembelajaran, *Project Based Learning*, Hasil Belajar

ABSTRACT

Rizky Ferdiansyah (5202121003): Efforts to Improve SMAW Welding Technique Learning Outcomes by Applying Project Based Learning Model to Class XI TPL Students at SMK Negeri 1 Percut Sei Tuan Academic Year 2024/2025. Mechanical Engineering Education Study Program. Faculty of Engineering. State University of Medan. 2025.

This study aims to improve student learning outcomes in the SMAW Welding Technique subject in class XI TPL at SMK Negeri 1 Percut Sei Tuan in the 2024/2025 Academic Year. This study uses a classroom action research (CAR) method which is carried out in two cycles. Each cycle consists of four stages, namely: Planning, Implementation of activities and observations, Observation, and Reflection/action. The location of the research is at SMK Negeri 1 Percut Sei Tuan. The time of this research is in November 2024. The population in this study were all students of class XI TPL totaling 25 people. This sampling technique was carried out using a total sample. So that the number of samples is 25 people. Data collection techniques are carried out using observation, testing, and interview techniques. The results of the study showed that in the pre-cycle, students who got a low passing grade were 4 people with a percentage value of 16% with an average value of 69.12. Furthermore, in the action cycle I, the value increased quite significantly with the number of students who completed 12 students with a percentage of 48% and an average value of 74.64. Then the second cycle action was carried out to obtain a very increased completion value with an average of 83.6 and the percentage of students who completed it was 92%. So it can be concluded that the use of this Project Based Learning learning model can improve the learning outcomes of SMAW welding techniques in class XI TPL students at SMK Negeri 1 Percut Sei Tuan in the 2024/2025 academic year.

Keywords: Learning Model, Project Based Learning, Learning Outcomes