

ABSTRAK

Aditya Hengki Pratama, 5213321016. “Pengaruh Penerapan *Experiential Learning* Berbantuan Chat GPT Terhadap Motivasi Dan Keterampilan Teknik Pengelasan *Shielded Metal Arc Welding* (SMAW) Siswa Kelas XI SMK Negeri 1 Percut Sei Tuan”. Skripsi. Fakultas Teknik Universitas Negeri Medan 2025.

Penelitian ini dilatarbelakangi oleh pemahaman konsep yang kompleks, kurangnya kesempatan praktik, dan rendahnya Motivasi belajar. Tujuan dari penelitian ini untuk mengetahui pengaruh Penerapan *Experiential Learning* Berbantuan Chat GPT Terhadap Motivasi Dan Keterampilan Teknik Pengelasan *Shielded Metal Arc Welding* (SMAW) Siswa Kelas XI SMK Negeri 1 Percut Sei Tuan.

Metode penelitian ini menggunakan kuantitatif dengan desain *pre-experimental design* dengan bentuk *one group pre-test post-test design* yaitu membandingkan motivasi dan keterampilan Teknik Pengelasan *Shielded Metal Arc Welding* (SMAW) siswa sebelum dan sesudah mendapat perlakuan. Populasi dalam penelitian ini adalah siswa TPL kelas XI SMK Negeri 1 Percut Sei Tuan yang berjumlah 25 siswa. Teknik pengambilan sampel menggunakan *Total Sampling* yaitu jumlah populasi yang kurang dari 100 seluruh populasi di jadikan sampel penelitian semuanya. Instrument penelitian ini menggunakan lembar angket motivasi belajar dan rubrik penilaian praktik. Teknik analisis data penelitian ini menggunakan uji validitas dan reabilitas, uji prasyarat (uji normalitas) dan uji hipotesis (uji *t independent test*).

Hasil penelitian menunjukkan bahwa Penerapan *Experiential Learning* Berbantuan Chat GPT Berpengaruh Terhadap Motivasi Dan Keterampilan Teknik Pengelasan *Shielded Metal Arc Welding* (SMAW) siswa, karena pada hasil analisis uji *t (independent test)* diperoleh hasil nilai signifikansi (sig.2-tailed) $0,000 < 0,05$, maka H_a diterima dan H_0 ditolak. Artinya, terdapat Pengaruh Penerapan *Experiential Learning* Berbantuan Chat GPT Terhadap Motivasi Dan Keterampilan Teknik Pengelasan *Shielded Metal Arc Welding* (SMAW) Siswa Kelas XI SMK Negeri 1 Percut Sei Tuan.

KATA KUNCI : *Experiential Learning* Berbantuan Chat GPT, Motivasi Dan Keterampilan Teknik Pengelasan *Shielded Metal Arc Welding* (SMAW).

ABSTRACT

Aditya Hengki Pratama, 5213321016. "The Effect of the Application of Experiential Learning Assisted by Chat GPT on the Motivation and Skills of Shielded Metal Arc Welding (SMAW) Welding Techniques of Grade XI Students of SMK Negeri 1 Percut Sei Tuan". Thesis. Faculty of Engineering, State University of Medan 2025.

This research is based on the understanding of complex concepts, lack of practical opportunities, and low motivation to learn. The purpose of this study is to find out the effect of the application of experiential learning assisted by Chat GPT on the motivation and skills of Shielded Metal Arc Welding (SMAW) Welding Techniques of Grade XI Students of SMK Negeri 1 Percut Sei Tuan.

This research method uses quantitative with a pre-experimental design in the form of a one group pre-test post-test design, namely comparing the motivation and skills of the Shielded Metal Arc Welding (SMAW) Welding Technique of students before and after receiving treatment. The population in this study is 25 students of TPL class XI of SMK Negeri 1 Percut Sei Tuan. The sampling technique uses Total Sampling, which is the number of populations less than 100, the entire population is used as a research sample. This research instrument uses a learning motivation questionnaire and a practice assessment rubik. The data analysis technique of this study uses validity and reliability tests, prerequisite tests (normality tests) and hypothesis tests (independent t tests).

The results of the study show that the application of experiential learning assisted by Chat GPT affects the motivation and skills of students' Shielded Metal Arc Welding (SMAW) welding techniques, because in the results of the analysis of the t-test (independent test) the results of the significance value (sig.2-tailed) $0.000 < 0.05$, then H_a was accepted and H_0 was rejected. This means that there is an effect of the application of experiential learning assisted by chat GPT on the motivation and skills of Shielded Metal Arc Welding (SMAW) welding techniques of grade XI students of SMK Negeri 1 Percut Sei Tuan.

KEYWORDS: Experiential Learning Assisted by Chat GPT, Motivation and Skills of Shielded Metal Arc Welding (SMAW) Welding Techniques.