

ABSTRAK

Erni Nia Azhary Lumban Gaol. NIM 5212411013. Pengaruh Model Pembelajaran Kooperatif Tipe *Student Facilitator And Explaining* (SFAE) Terhadap Hasil Belajar Siswa Elemen Gambar Teknik Program Keahlian DPIB Kelas X SMK Negeri 5 Medan. Skripsi. Fakultas Teknik. Universitas Negeri Medan. 2025.

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran kooperatif tipe *Student Facilitator And Explaining* (SFAE) terhadap hasil belajar siswa elemen gambar teknik program keahlian DPIB kelas X di SMK negeri 5 Medan semester ganjil Tahun Ajaran 2025/2026. Penelitian ini menggunakan pendekatan kuantitatif dengan desain penelitian yang terdiri dari tahap pra penelitian, tahap penelitian dan tahap pasca penelitian. Subjek penelitian ini adalah 36 siswa kelas X Desain Pemodelan dan Informasi Bangunan (DPIB). Data dikumpulkan melalui instrumen test (*Pre-test* dan *Post-test*).

Hasil penelitian menunjukkan bahwa penggunaan model pembelajaran kooperatif Tipe *Student facilitator And Explaining* (SFAE) memberikan pengaruh peningkatan hasil belajar siswa. Rata – rata nilai sebelum dilakukan model pembelajaran SFAE adalah 51 dan setelah penggunaan model pembelajaran SFAE Adalah 86. Berdasarkan hasil penelitian ini, dapat disimpulkan bahwa model pembelajaran kooperatif tipe *Student Facilitator And Explaining* (SFAE) memberikan pengaruh peningkatan hasil belajar siswa. Diharapkan hasil penelitian ini dapat menjadi referensi bagi guru dalam meningkatkan kualitas pembelajaran dikelas.

Kata Kunci: Kuantitaif, Pengaruh Model Pembelajaran, *Student Facilitator And Explaining* (SFAE), Desain Pemodelan dan Informasi Bangunan, SMK Negeri 5 Medan.

ABSTRACT

Erni Nia Azhary Lumban Gaol. NIM 5212411013. The Effect of the Student Facilitator and Explaining (SFAE) Cooperative Learning Model on the Learning Outcomes of Engineering Drawing Elements of the DPIB Expertise Program for Grade X of SMKN 5 Medan. Thesis. Faculty of Engineering. Medan State University. 2025.

This study aims to determine the effect of the Student Facilitator and Explaining (SFAE) cooperative learning model on the learning outcomes of engineering drawing elements of the DPIB expertise program for grade X of SMKN 5 Medan in the odd semester of the 2025/2026 academic year. This study used a quantitative approach with a research design consisting of pre-research, research, and post-research stages. The subjects of this study were 36 grade X students of the Building Information Modeling and Design (DPIB) program. Data were collected through test instruments (pre-test and post-test).

The results showed that the use of the Student Facilitator and Explaining (SFAE) cooperative learning model resulted in improved student learning outcomes. The average score before the SFAE learning model was 51, and after the SFAE learning model was 86. Based on the results of this study, it can be concluded that the Student Facilitator and Explainer (SFAE) cooperative learning model has an impact on improving student learning outcomes. It is hoped that the results of this study can serve as a reference for teachers in improving the quality of classroom learning.

Keywords: Quantitative, Effect of Learning Models, Student Facilitator and Explainer (SFAE), Building Modeling and Information Design, SMK Negeri 5 Medan.

