

ABSTRAK

Thita Mulia Akbar: 518331004. Pengembangan E-Modul Pembelajaran Instalasi Penerangan Listrik Berbasis *Student Facilitator And Explaining* Kelas XI TITL SMK Swasta Sinar Husni 2 TR Labuhan Deli T.A 2024/2025. Skripsi Program Studi Pendidikan Teknik Elektro. Universitas Negeri Medan. 2025.

Penelitian ini merupakan penelitian pengembangan (*Research and Development*) yang menghasilkan media pembelajaran E-Modul pada mata pelajaran Instalasi Penerangan Listrik berbasis *Student Facilitator and Explaining*. Penelitian tersebut bertujuan untuk mengetahui kelayakan produk berdasarkan penilaian para ahli dan respon pengguna. Subjek yang digunakan pada penelitian ini adalah siswa kelas XI SMK Swasta Sinar Husni 2 TR Labuhan Deli. Model pengembangan yang digunakan adalah model ADDIE (*Analysis, Design, Development, Implementation, Evaluation*). Proses pengembangan dilakukan mulai dari analisis kebutuhan dan kurikulum, perancangan media, pengembangan produk, uji coba produk, hingga evaluasi produk akhir. Teknik pengumpulan data menggunakan metode observasi, wawancara, dan angket/kuesioner. Instrumen pengumpulan data berupa angket validasi dari ahli materi, ahli media, dan angket respon siswa. Hasil validasi menunjukkan bahwa produk yang dikembangkan berada dalam kategori "sangat baik" dengan persentase kelayakan 92,36%. Hasil validasi ahli menunjukkan bahwa media pembelajaran yang dikembangkan berada dalam kategori "sangat layak" untuk digunakan. Hasil uji coba kepada siswa juga menunjukkan respon yang sangat positif, baik dari segi tampilan, kemudahan penggunaan, maupun kebermanfaatan materi. Dengan demikian, E-Modul pada mata pelajaran Instalasi Penerangan Listrik berbasis *Student Facilitator and Explaining* ini layak digunakan sebagai media pembelajaran pada mata pelajaran Instalasi Penerangan Listrik kelas XI.

Kata Kunci: Pengembangan, Media pembelajaran, E-modul, Instalasi Penerangan Listrik, Model ADDIE, *Student Facilitator and Explaining*



ABSTRACT

Thita Mulia Akbar: 518331004. The Development of an E-Module for Electrical Lighting Installation Learning Based on the Student Facilitator and Explaining Model for Grade XI TITL at SMK Swasta Sinar Husni 2 TR Labuhan Deli Academic Year 2024/2025. Undergraduate Thesis, Electrical Engineering Education Study Program, Universitas Negeri Medan. 2025.

This study was a Research and Development (R&D) project that aimed to produce a learning medium in the form of an E-Module for the subject Electrical Lighting Installation, based on the Student Facilitator and Explaining learning model. The objective of this research was to determine the feasibility of the developed product based on expert evaluations and user responses. The subjects involved in this study were Grade XI students of SMK Swasta Sinar Husni 2 Labuhan Deli. The development process followed the ADDIE model, which consisted of five stages: Analysis, Design, Development, Implementation, and Evaluation. The development process included needs and curriculum analysis, media design, product development, product testing, and final evaluation. Data collection techniques employed observation, interviews, and questionnaires. The instruments used for data collection were validation questionnaires completed by subject matter experts and media experts, as well as student response questionnaires. The validation results showed that the developed product fell into the “excellent” category, with a feasibility percentage of 92.36%. Expert validation also confirmed that the learning media was “highly feasible” for instructional use. The trial results with students demonstrated a very positive response in terms of visual design, ease of use, and the usefulness of the content. Therefore, the E-Module for the Electrical Lighting Installation subject based on the Student Facilitator and Explaining model was considered feasible and effective as a learning medium for Grade XI students.

Keywords: Development, Learning Media, E-Module, Electrical Lighting Installation, ADDIE Model, Student Facilitator and Explaining