

ABSTRAK

Sonoakhimantaptius Gulo: 5183331003. Pengembangan *E-Learning* Berbasis Neo LMS pada Mata Pelajaran Instalasi Motor Listrik di SMK Swasta Teladan Sumatera Utara 2. 2025.

Penelitian ini bertujuan untuk mengembangkan *e-learning* berbasis Neo LMS sebagai media pembelajaran pada mata pelajaran Instalasi Motor Listrik untuk peserta didik kelas XI Teknik Instalasi Tenaga Listrik (TITL) di SMK Swasta Teladan Sumatera Utara 2. Latar belakang penelitian ini adalah keterbatasan pembelajaran konvensional, seperti minimnya waktu tatap muka dan kurangnya fleksibilitas dalam penyampaian materi yang berdampak pada pencapaian kompetensi peserta didik. Penelitian ini menggunakan metode *Research and Development* (R&D) dengan model pengembangan ADDIE yang terdiri dari lima tahap: *Analysis*, *Design*, *Development*, *Implementation*, dan *Evaluation*. Tahap *Analysis* dilakukan melalui observasi dan wawancara dengan guru untuk mengidentifikasi kebutuhan pembelajaran. Pada tahap *Design*, dilakukan perancangan antarmuka dan konten pembelajaran di platform Neo LMS. Tahap *Development* melibatkan pembuatan *sistem* dan pengisian materi. Tahap *Implementation* dilakukan melalui uji coba terbatas kepada peserta didik, dan tahap *Evaluation* meliputi validasi ahli serta angket respon pengguna. Hasil penelitian menunjukkan bahwa *e-learning* berbasis Neo LMS sangat layak digunakan dalam pembelajaran. Validasi oleh ahli media memperoleh persentase 92,5% dan ahli materi 87%. Respon peserta didik terhadap media pembelajaran menunjukkan persentase sebesar 86,6% yang termasuk dalam kategori “sangat layak”. E-learning ini memberikan akses pembelajaran yang fleksibel, mendukung pembelajaran mandiri, serta membantu peserta didik memahami materi secara lebih interaktif. Dengan demikian, *e-learning* berbasis Neo LMS dapat dijadikan sebagai media pembelajaran inovatif yang efektif untuk meningkatkan hasil belajar peserta didik pada mata pelajaran Instalasi Motor Listrik.

Kata Kunci: E-Learning, Neo LMS, Instalasi Motor Listrik, Media Pembelajaran, ADDIE.

ABSTRACT

Sonoakhimantaptius Gulo: 5183331003. Development of Neo LMS Based E-Learning in Electric Motor Installation Subject at SMK Swasta Teladan Sumatera Utara 2. 2025.

This research aims to develop Neo LMS-based e-learning as a learning media in the subject of Electric Motor Installation for students of class XI Electrical Power Installation Engineering (TITL) at SMK Swasta Teladan Sumatera Utara 2. The background of this research is the limitations of conventional learning, such as the lack of face-to-face time and lack of flexibility in delivering material which has an impact on the achievement of learner competencies. This research uses the Research and Development (R&D) method with the ADDIE development model which consists of five stages: Analysis, Design, Development, Implementation, and Evaluation. The Analysis stage is conducted through observation and interviews with teachers to identify learning needs. At the Design stage, the interface and learning content are designed on the Neo LMS platform. The Development stage involves making the system and filling in the material. The Implementation stage is conducted through limited trials to students, and the Evaluation stage includes expert validation and user response questionnaires. The results showed that Neo LMS-based e-learning is very feasible to use in learning. Validation by media experts obtained a percentage of 92.5% and material experts 87%. Students' response to the learning media shows a percentage of 86.6% which is included in the "very feasible" category. This e-learning provides flexible access to learning, supports independent learning, and helps students understand the material more interactively. Thus, Neo LMS-based e-learning can be used as an effective innovative learning media to improve student learning outcomes in Electric Motor Installation subjects.

Keywords: *E-Learning, Neo LMS, Electric Motor Installation, Learning Media, ADDIE.*