ABSTRAK

Arvin Muhammad Rangkuti, NIM. 5173131005, Pengembangan Modul Pembelajaran Instalasi Penerangan Listrik Konsentrasi Keahlian Teknik Instalasi Tenaga Listrik di SMK Swasta Imelda Medan.

Penelitian pengembangan ini bertujuan untuk mengetahui cara pengembangan Modul Pembelajaran Instalasi Penerangan Listrik Kelas XI Konsentrasi Keahlian Teknik Instalasi Tenaga Listrik di SMK Swasta Imelda Medan. Serta mengetahui tingkat kelayakan Modul Pembelajaran Instalasi Penerangan Listrik Kelas XI Konsentrasi Keahlian Teknik Instalasi Tenaga Listrik di SMK Swasta Imelda Medan. Jenis penelitian ini adalah penelitian pengembangan atau *Research and Development (R&D).*

Metode penelitian yang digunakan dalam penelitian ini menggunakan model penelitian *Four-D (4D)* yang meliputi empat tahapan yaitu *define* yaitu analisis awal, analisis siswa dan kurikulum, serta merumuskan tujuan. Kedua *design* yaitu penyusunan garis besar Modul Pembelajaran, mendisain isi pembelajaran sesuai dengan Modul Pembelajaran yang digunakan, pemilihan format, penulisan Modul Pembelajaran. Ketiga *develop* yaitu validasi ahli, Penilaian kelayakan, uji coba respon pengguna dan produk final Modul Pembelajaran. Keempat *Disseminate* yaitu memperkenalkan Modul Pembelajaran yang dikembangkan dinyatakan layak berdasarkan penilaian ahli materi yang mencakup aspek: penyajian, materi, bahasa, dan kemanfaatan yang mencapai nilai rata-rata 95 dengan presentase 95% dan penilaian kelayakan oleh ahli media meliputi lima aspek yaitu tampilan, kemudahan penggunaan, konsistensi, format dan grafik yang mencapai nilai rata-rata 93 dengan presentase 93% serta hasil uji respon pengguna (siswa) yang mencakup aspek materi, manfaat, dan tampilan yang mencapai nilai rata-rata 93 dengan persentase skor 93% maka dapat disimpulkan bahwa Modul Pembelajaran yang dikembangkan sangat layak digunakan.

Kata Kunci: *Pengembangan Modul Pembelajaran, Model Four-D, Instalasi Penerangan Listrik*

ABSTRACT

Arvin Muhammad Rangkuti, NIM. 5173131005, Development of Learning Module for Electrical Lighting Installation Subject Class XI Electrical Power Installation Engineering SMK Imelda Medan. Electrical Engineering Education Study Program, Faculty of Engineering, Medan State University, 2023.

This study aims to determine the procedure for making Learing Module for Class XI Electrical Lighting Installation Subjects Electrical Power Installation Engineering SMK Imelda Medan. As well as knowing the feasibility level of teaching materials for Learing Modules for Class XI Electrical Lighting Installation Subject Electrical Power Installation Engineering at SMK Imelda Medan. This type of research is research and development of Learing Module or Research and Development (R&D).

The method in this research is carried out by elaborating through four stages, namely define, namely the initial analysis, student and curriculum analysis, and formulating objectives. The second design is the preparation of an outline of the Learing Module, designing the learning content according to the Learing Module used, choosing the format, writing Learing Module. The three developments are expert validation: feasibility assessment, user (students) response testing, and final product of Learing Modules. The fourth is Disseminate, namely introducing new products. The Learing Module that was developed was declared feasible based on material experts covering four aspects including: presentation, material, language, and benefits which reached an average value of 95 with a percentage of 95% and the feasibility of media experts covering five aspects, namely appearance, ease of use, consistency, format and graphic aspects which reach an average value of 93 with a percentage of 93% as well as as well as user (student) response test results covering aspects of material, benefits and appearance which reached an average score of 93 with a score percentage of 93%, it can be concluded that the Learing Module developed is very suitable for use.

Keywords: ***Learning Module Development, Four-D Model, and Electrical Lighting Installation***