

ABSTRAK

Suwarno. NIM 5151111051: Pengembangan E-Modul Keselamatan Dan Kesehatan Kerja Serta Lingkungan Hidup (K3LH) Sebagai Sumber Belajar Siswa DPIB Dengan Elemen Teknik Dasar Pada Proyek Teknik Pengukuran Tanah SMKN 1 Percut Sei Tuan. Skripsi. Fakultas Teknik-Universitas Negeri Medan. 2022

Kegiatan pembelajaran Dasar-Dasar Konstruksi Bangunan dan Teknik Pengukuran Tanah (DDKBTPT) khususnya pada sub judul Keselamatan dan Kesehatan Kerja serta Lingkungan Hidup (K3LH) siswa kelas X Desain Pemodelan dan Informasi Bangunan (DPIB) SMKN 1 Percut Sei Tuan masih kurang referensi modul pembelajaran. Penelitian ini bertujuan untuk mengembangkan modul berbentuk elektronik (*e-modul*) dengan menggunakan aplikasi *Microsoft word* dan *canva video* dalam pembelajaran Dalam Jaringan (Daring). Metodologi yang digunakan adalah Penelitian Pengembangan dengan model pengembangan *Analysis* (analisis), *Design* (Desain), *Develop* (Pengembangan), *Implement* (Implementasi) dan *Evaluate* (Evaluasi) umumnya dikenal dengan ADDIE. Kelayakan *e-modul* pembelajaran Keselamatan Kesehatan Kerja serta Lingkungan Hidup (K3LH) mata pelajaran Dasar-Dasar Konstruksi Bangunan mendapat nilai rata-rata oleh masing-masing validator yaitu; (1) data validasi ahli media mendapat nilai presentasi 96 % dan tergolong pada kategori “Sangat Layak”; (2) data validasi ahli materi mendapat presentasi 90% dan tergolong pada kategori “Layak”; (3) data validasi ahli bahasa mendapat presentasi 92,5 dan tergolong pada kategori “Sangat Layak”; (4) data validasi pengguna (*User*) mendapat presentasi 90,2 dan tergolong pada kategori “Layak” berdasarkan data tersebut maka *e-modul* K3LH mata pelajaran Dasar-Dasar Konstruksi Bangunan kelas X DPIB SMK Negeri 1 Percut Sei Tuan dinyatakan layak digunakan.

Kata kunci: Keselamatan, Kesehatan kerja, Lingkungan Hidup, Sumber Belajar, Dasar-Dasar Konstruksi Bangunan dan Teknik Pengukuran Tanah, modul elektronik.



ABSTRACT

Suwarno. Student ID Number 5151111051: *Development of an E-Module for Occupational Safety and Health and the Environment as a Learning Resource for DPIB Students with Elements of Basic Engineering in the Land Surveying Engineering Project at SMKN 1 Percut Sei Tuan. Thesis. Faculty of Engineering - State University of Medan. 2022*

Learning activities of Building Construction Fundamentals and Land Measurement Techniques (DDKBTPT), especially in the sub-title of Occupational Safety and Health and the Environment class X students of Building Modeling and Information Design (DPIB) SMKN 1 Percut Sei Tuan still lacks reference to learning modules. This study aims to develop an electronic module using Microsoft word and Canva video applications in online learning. The methodology used is Development Research with a development model of Analysis, Design, Development, Implementation and Evaluate generally known as ADDIE. The feasibility of the e-learning module for Occupational Health and Environmental Safety in the subject of Building Construction Fundamentals received an average score by each validator, namely; (1) media expert validation data received a presentation value of 96% and was classified in the "Very Eligible" category; (2) material expert validation data received a presentation of 90% and was classified in the "Eligible" category; (3) validation data for linguists received a presentation of 92.5 and were classified in the "Very Eligible" category; (4) user validation data (User) received a presentation of 90.2 and was classified in the "Eligible" category. Based on the data, the K3LH e-module for the subject of Building Construction Fundamentals for class X DPIB SMK Negeri 1 Percut Sei Tuan was declared eligible to be used.

Keywords: *Occupational Safety, Health, Environment, Learning Resources, Fundamentals of Building Construction and Land Measurement Techniques, electronic module.*

