

ABSTRAK

INTAN PULUNGAN. Inovasi Pembelajaran dengan *E-Learning* Berbasis Literasi *Digital* Untuk Pelatihan Jarak Jauh Guru Kimia Madrasah Aliyah. Disertasi. Program Pasca Sarjana Universitas Negeri Medan, 2022.

Menghadapi era pengetahuan diperlukan inovasi pembelajaran yang memungkinkan peserta pelatihan dapat mengakses pengetahuan dimanapun dan kapanpun. Peserta pelatihan memerlukan inovasi pembelajaran berbasis literasi digital yang dapat meningkatkan kreatifitas untuk perubahan cara belajarnya dengan teknologi karena seseorang mereduksi cara belajarnya berdasarkan lingkungannya. Penelitian ini bertujuan untuk menghasilkan bahan ajar yang inovatif menggunakan elektronik – Modul Berbasis Literasi *Digital* (e-MBLD), yang valid, praktis, dan efektif dalam rangka meningkatkan hasil belajar, khususnya kemampuan berpikir tingkat tinggi peserta pelatihan PJJ Guru Kimia MA pada Materi Esensial Hidrokarbon dan Minyak Bumi. Penelitian dilakukan dengan melakukan tahap *Analisation, Desain, Development, Implementation, and Evaluation*, (ADDIE). Subyek penelitian ini adalah peserta pelatihan jarak jauh Guru Kimia Madrasah Aliyah di Balai Diklat Keagamaan Medan sebanyak 23 orang peserta. Validasi instrumen tes dilakukan di Balai Diklat Keagamaan Aceh, terhadap 30 orang peserta pelatihan Guru Kimia MA. Hasil penelitian menunjukkan bahwa Validitas produk e-MBLD pada pokok bahasan Materi Esensial Hidrokarbon Dan Minyak Bumi adalah valid artinya sangat layak. Kepraktisan desain e-MBLD pada pokok bahasan Materi Esensial Hidrokarbon dan Minyak Bumi dengan kriteria baik, Efektifitas produk e-MBLD pada pokok bahasan Materi Esensial Hidrokarbon dan Minyak Bumi dengan kriteria baik. Terdapat korelasi antara motivasi belajar dan kemampuan hasil belajar peserta PJJ yang menggunakan e-MBLD pada pokok bahasan materi esensial hidrokarbon dan minyak bumi karena harga $\text{Sig.} < \alpha$ ($0,046 < 0,05$) maka H_a diterima. Artinya terdapat hubungan motivasi berprestasi terhadap hasil belajar yang diajarkan dengan e-MBLD, karena harga $\text{Sig.} < \alpha$ ($0,034 < 0,05$) maka H_a diterima. Artinya terdapat hubungan antara motivasi berprestasi belajar terhadap kemampuan berpikir tingkat tinggi peserta pelatihan kimia yang diajarkan dengan e-MBLD kimia MA

Keyword: Pembelajaran Berbasis Masalah, Kemampuan Berpikir Kritis, Materi Esensial dan Hidrokarbon.

ABSTRAC

INTAN PULUNGAN. *Learning Innovation with Digital Literacy-Based E-Learning for Distance Training for Chemistry Teachers at Madrasah Aliyah. Dissertation. Postgraduate Program Universitas Negeri Medan, 2022.*

Facing the era of knowledge requires learning innovations that allow trainees to access knowledge anywhere and anytime. Training participants need digital literacy-based learning innovations that can increase creativity for changing the way they learn with technology because someone reduces their way of learning based on their environment. This study aims to produce innovative teaching materials using electronics – Digital Literacy-Based Modules (e-MBLD), which are valid, practical, and effective in order to improve learning outcomes, especially high-order thinking skills of PJJ Master Chemistry MA training participants on Essential Hydrocarbon Materials. and Petroleum. The research was conducted by conducting the Analysis, Design, Development, Implementation, and Evaluation (ADDIE) stages. The subjects of this study were the 23 participants of the distance training for the Chemistry Teacher at Madrasah Aliyah at the Medan Religious Education and Training Center. The validation of the test instrument was carried out at the Aceh Religious Education and Training Center, on 30 participants of the MA Chemistry Teacher training. The results showed that the validity of the e-MBLD product on the subject matter of Essential Hydrocarbons and Petroleum was valid, meaning that it was very feasible. The practicality of the e-MBLD design on the subject matter of Essential Hydrocarbons and Petroleum with good criteria. The effectiveness of the e-MBLD product on the subject matter of Essential Hydrocarbons and Petroleum with good criteria. There is a correlation between learning motivation and learning outcomes of PJJ participants who use e-MBLD on the subject matter of essential hydrocarbons and petroleum because the price of Sig. < (0.046 < 0.05) then H_a is accepted. This means that there is a relationship between achievement motivation and learning outcomes taught with e-MBLD, because the price of Sig. < (0.034 < 0.05) then H_a is accepted. This means that there is a relationship between learning achievement motivation and higher-order thinking skills of chemistry training participants taught with MA. chemistry e-MBLD

Keyword: *Problem Based Learning, Critical Thinking Skill, Essential Materials Hydrocarbons and Petroleum*