ABSTRACT

Rahmat Dani, 2022, Designing Information Systems for Web-Based Industrial Work Practices at SMK Dhuafa Padang, Bachelor of Informatics Engineering Education, Faculty of Teaching Science and Education, Putra Indonesia University.

This study aims to determine the Validity, Practicality and Effectiveness of Information System Design for Web-Based Industrial Work Practices at SMK Dhuafa Padang. This study uses research development methods (research & development). The research subjects were 31 people. The research model used is the development research model (Wallfall Method), with the design of the development steps as follows. (1) Requirements analysis and definition, (2) System and software design, (3) Implementation and unit testing, (4) Integration and system testing and (5) Operation and maintenance. The results of the validity test by the experts as a whole the validator test assessment of the Information System Design for Web-Based Industrial Work Practices at SMK Dhuafa Padang is 90.33%, so that the validity level can be interpreted as very valid to use. The results of the practicality test assessment as a whole the practicality assessment of the Web-Based Industrial Work Practice Information System Design at SMK Dhuafa Padang is 87.96%, so that the level of practicality can be interpreted to be very practical to use. The results of the overall effectiveness test assessment of the effectiveness of Web-Based Industrial Work Practice Information System Design at SMK Dhuafa Padang amounted to 88.30% so that the level of effectiveness can be interpreted to be very effective in use. In conclusion, based on the assessment along with expert input and the results of field trials Web-Based Information Media as an information medium has been tested for feasibility, superiority, and can be used in the process of implementing internships at SMK Dhuafa Padang.

Keywords: Industrial Work Practices, Internship, Waterfall.

ABSTRAK

Rahmat Dani, 2022, Perancangan Sistem Informasi Praktik Kerja Industri Berbasis *Web* di SMK Dhuafa Padang, Sarjana Pendidikan Teknik Informatika Fakultas Keguruan Ilmu dan Pendidikan Universitas Putra Indonesia.

Penelitian ini bertujuan untuk mengetahui Validitas, Praktikalitas dan Efektifitas Perancangan Sistem Informasi Praktik Kerja Industri Berbasis *Web* di SMK Dhuafa Padang. Penelitian ini menggunakan metode pengembangan penelitian (*research & development*). Subjek penelitian berjumlah 31 orang. Model penelitian yang digunakan adalah model penelitian pengembangan (Metode *Waterlfall*), dengan desain langkah-langkah pengembangannya adalah sebagai berikut. (1) *Requirements analysis and definition*, (2) *System and software design*, (3) *Implementation and unit testing*, (4) *Integration and system testing* dan (5) *Operation and maintenance*. Hasil uji validitas oleh para ahli secara keseluruhan penilaian uji validator terhadap Perancangan Sistem Informasi Praktik Kerja Industri Berbasis *Web* di SMK Dhuafa Padang sebesar 90,33%, sehingga tingkat validitas dapat di interprestasikan sangat valid digunakan. Hasil penilaian uji praktikalitas secara keseluruhan penilaian praktikalitas terhadap Perancangan Sistem Informasi Praktik Kerja Industri Berbasis *Web* di SMK Dhuafa Padang 87,96%, sehingga tingkat praktikalitasnya dapat di interprestasikan sangat praktis digunakan. Hasil penilaian uji efektivitas secara keseluruhan penilaian efektivitas Perancangan Sistem Informasi Praktik Kerja Industri Berbasis *Web* di SMK Dhuafa Padang sebesar 88,46% sehingga tingkat efektivitasnya dapat di interprestasikan sangat efektiv digunakan. Kesimpulannya, berdasarkan penilaian beserta masukan ahli serta hasil dari uji coba lapangan Media Informasi Berbasis *Web* sebagai media informasi sudah teruji kelayakan, keunggulan, dan dapat digunakan pada proses pelaksanaan prakerin di SMK Dhuafa Padang.

Kata Kunci: Prakerin, Praktek Kerja Industri, Waterfall.