

PENGEMBANGAN LEMBAR KERJA PESERTA DIDIK (LKPD) BERBASIS KONTEKSTUAL PADA MATERI PENGOPERASIAN GARDU INDUK KELAS XI DI SMK

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ABSTRAK

Penelitian ini bertujuan untuk: 1). Mengembangkan Lembar Kerja Peserta Didik (LKPD) berbasis kontekstual pada materi pengoperasian gardu induk kelas XI di SMK, 2). Mengetahui tingkat kelayakan Lembar Kerja Peserta Didik (LKPD) berbasis kontekstual pada materi pengoperasian gardu induk kelas XI di SMK, 3). Mengetahui respon peserta didik terhadap Lembar Kerja Peserta Didik (LKPD) berbasis kontekstual pada materi pengoperasian gardu induk kelas XI di SMK.

Metodelogi penelitian ini adalah penelitian dan pengembangan (*Research & Development*) dengan model pengembangan *Four-D Models* oleh Thiagaradjan. *Four-D Models* terdiri dari 4 tahap, yaitu: 1). Pendefinisian (*define*), 2). Perancangan (*design*), 3). Pengembangan (*develop*), 4). Penyebaran (*dissaminate*). Instrumen yang digunakan adalah instrumen non tes berupa angket tertutup dengan skala likert 5 pilihan jawaban. Angket divalidasi oleh seorang ahli evaluasi. Pengumpulan data dilakukan menggunakan angket yang dinyatakan valid pada 25 responden. Tingkat kelayakan LKPD (Lembar Kerja Peserta Didik) dianalisis menggunakan teknik analisis deskriptif kuantitatif. Berdasarkan hasil analisis dan pembahasan, diketahui bahwa: 1) Penelitian pengembangan ini menghasilkan sumber belajar sesuai dengan KD yaitu Lembar Kerja Peserta Didik (LKPD) berbasis kontekstual pada materi pengoperasian gardu induk. 2) Tingkat kelayakan LKPD (Lembar Kerja Peserta Didik) diketahui dari hasil penilaian ahli materi, ahli bahan ajar, praktisi guru dan gardu induk serta peserta didik (pengguna). Hasil validasi ahli materi yang meliputi aspek kelayakan isi, penyajian, kebahasaan, dan kesesuaian pembelajaran kontekstual diperoleh rata-rata skor 4,07 dengan kategori “layak”. Hasil validasi ahli bahan ajar meliputi aspek konsistensi, format, organisasi, daya tarik dan ruang (spasi) kosong diperoleh rata-rata skor 4,43 dengan kategori “sangat layak”. Hasil validasi praktisi guru meliputi aspek relevansi, keakuratan, keterbacaan, kebahasaan, dan kesesuaian pembelajaran kontekstual diperoleh rata-rata skor 4,63 dengan kategori “sangat layak”. Hasil validasi praktisi gardu induk meliputi aspek kelayakan isi, materi dan bahan ajar diperoleh rata-rata skor 4,76 dengan kategori “sangat layak”. 3) Respon peserta didik diperoleh rata-rata skor 3,56 dengan kategori “sangat positif”.

Kata kunci: *penelitian, pengembangan, LKPD (Lembar Kerja Peserta Didik), berbasis kontekstual, pengoperasian gardu induk.*

Abstrack

This study aims to: 1). Develop context-based Student Worksheets (LKPD) on material for the operation substations of class XI in SMK 2). Knowing the feasibility level of the Student-Based Worksheet (LKPD) based on the material for the operation substations of class XI in SMK 3). Knowing the students' responses to the Student-Based Worksheet (LKPD) based on the material for the operation substation of class XI in SMK.

The methodology of this research is research and development with the development model of Four-D Models by Thiagaradjan. Four-D Models consist of 4 stages, namely: 1). Define, 2). Design, 3). Develop, 4). Dissemination. The instrument used was a non-test instrument in the form of a closed questionnaire with a Likert scale 5 answer choices. Questionnaire validated by an evaluation expert. Data collection was conducted using a questionnaire that was declared valid in 25 respondents. The feasibility level of the LKPD (Student Worksheet) was analyzed using quantitative descriptive analysis techniques. Based on the results of the analysis and discussion, it is known that: 1) This development research produces learning resources in accordance with KD, which is contextually based Student Worksheet (LKPD) on the substation operation material. 2) The level of feasibility of the LKPD (Student Worksheet) is known from the results of the assessment of material experts, teaching materials experts, teacher practitioners and substations as well as students (users). The results of the material expert validation which included aspects of the feasibility of content, presentation, language, and suitability of contextual learning obtained an average score of 4.07 with the category "feasible". The results of the validation of teaching materials experts include aspects of consistency, format, organization, attractiveness and space (space) blank obtained an average score of 4.43 with the category "very feasible". The results of the teacher practitioner's validation include aspects of relevance, accuracy, readability, language, and suitability of contextual learning obtained an average score of 4.63 with the category "very feasible". The validation results of substation practitioners include aspects of the feasibility of content, teaching materials and materials obtained an average score of 4.76 in the category of "very feasible". 3) The response of students is obtained an average score of 3.56 with the category "very positive".

Keywords: *research, development, LKPD (Student Worksheet), contextual basis, operation of substations*