

PENERAPAN MODEL PjBL (*PROJECT BASED LEARNING*) BERBANTUAN ALAT TRAINER DALAM MENINGKATKAN HASIL BELAJAR INSTALASI PENERANGAN LISTRIK SISWA KELAS XI DI SMK NEGERI 3 SINGARAJA

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ABSTRAK

Penelitian ini dilatarbelakangi oleh rendahnya hasil belajar peserta didik pada mata Pelajaran Konsentrasi Keahlian di SMK Negeri 3 Singaraja. Penelitian ini bertujuan untuk meningkatkan hasil belajar peserta didik dengan Penerapan Model Pembelajaran PjBL (*Project Based Learning*) Berbantuan Alat Trainer. Jenis Penelitian ini adalah Penelitian Tindakan Kelas (PTK). Model Penelitian yang digunakan adalah Model Kemmis dan Taggart yaitu menggunakan dua siklus. Setiap siklus dilaksanakan dalam empat kali pertemuan. Subjek Penelitian 35 peserta didik kelas XI TKL-2 SMK Negeri 3 Singaraja. Objek Penelitian ini adalah Penerapan Model PjBL (*Project Based Learning*) Berbantuan Alat Trainer untuk meningkatkan hasil belajar peserta didik. Metode pengumpulan data dilakukan melalui tes Essay, Observasi aktivitas peserta didik dan Observasi aktivitas guru, dan dokumentasi. Teknik Analisis data dilakukan secara kualitatif dan kuantitatif. Secara kualitatif melalui presentase hasil kinerja guru dan secara kuantitatif melalui nilai ketuntasan belajar peserta didik individual, nilai rata-rata hasil belajar peserta didik, presentase hasil belajar klasikal peserta didik. Indikator keberhasilan ditandai adanya peningkatan hasil belajar peserta didik dengan rata-rata yang diperoleh setiap siklus yaitu Siklus I 77,14% dan pada Siklus II 94,29%. Jika dikonversikan ke dalam PAP skala lima dan ketuntasan klasikal, siklus I berada pada kategori kurang dengan nilai 77,14% yaitu hanya terdapat 31 peserta didik dinyatakan tuntas sedangkan pada siklus II berada pada kategori baik dengan nilai 94,29% yaitu terdapat 33 peserta didik dinyatakan tuntas. Dengan demikian penerapan model pembelajaran PjBL (*Project Based Learning*) berbantuan alat trainer dapat meningkatkan hasil belajar peserta didik pada mata Pelajaran Konsentrasi Keahlian kelas XI TKL-2 di SMK Negeri 3 Singaraja Tahun ajaran 2023/2024.

Kata Kunci: PjBL (*Project Based Learning*), Alat Trainer, Hasil Belajar, Teknik Ketenagalistrikan.

**APPLICATION OF THE PjBL (PROJECT BASED LEARNING) MODEL
ASSISTED WITH TRAINER TOOLS IN IMPROVING LEARNING OUTCOMES
OF ELECTRICAL LIGHTING INSTALLATION OF CLASS XI STUDENTS AT
SMK NEGERI 3 SINGARAJA**

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ABSTRACT

This research was motivated by the low learning outcomes of students in Skills Concentration subjects at SMK Negeri 3 Singaraja. This research aims to improve student learning outcomes by implementing the PjBL (Project Based Learning) Learning Model Assisted by Trainer Tools. This type of research is Classroom Action Research (PTK). The research model used is the Kemmis and Taggart model, which uses two cycles. Each cycle is carried out in four meetings. Research subjects were 35 students in class XI TKL-2 of SMK Negeri 3 Singaraja. The object of this research is the application of the PjBL (Project Based Learning) model assisted by trainer tools to improve student learning outcomes. Data collection methods are carried out through essay tests, observation of student activities and observation of teacher activities, and documentation. Data analysis techniques were carried out qualitatively and quantitatively. Qualitatively through the percentage of teacher performance results and quantitatively through the learning completeness scores of individual students, the average value of student learning outcomes, the percentage of students' classical learning outcomes. The indicator of success is marked by an increase in student learning outcomes with the average obtained in each cycle, namely in Cycle I 77.14% and in Cycle II 94.29%. If converted into PAP scale five and classical completeness, cycle I is in the poor category with a score of 77.14%, namely there are only 31 students who are declared complete, while in cycle II it is in the good category with a score of 94.29%, namely there are 33 students. declared complete. Thus, the application of the PjBL (Project Based Learning) learning model assisted by trainer tools can improve student learning outcomes in the Skills Concentration Subject class XI TKL-2 at SMK Negeri 3 Singaraja for the 2023/2024 academic year.

**Keywords: PjBL (Project Based Learning), Trainer Tools, Learning Outcomes,
Electrical Engineering.**