

**RANCANG BANGUN MODUL PRAKTIKUM TRAINER PLC (*PROGRAMMABLE
LOGIC CONTROLLER*) DI LABORATORIUM TEKNIK ELEKTRO
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ABSTRACT

In the modern era, technological advancements in the industrial world are increasingly high and diverse. Many industrial companies utilize advanced technology to meet their various needs, such as control systems. In industrial companies, the use of technology can streamline work processes and improve production outcomes. One of the control technologies employed in an industrial company is the Programmable Logic Controller (PLC). However, based on a survey conducted at the Electrical Engineering Laboratory of Trunojoyo Madura University, the available PLC trainers are insufficient and outdated. Therefore, a portable PLC trainer will be developed. During the module trainer testing, various input components will be used, including proximity inductive, capacitive, and photovoltaic sensors, push buttons, and toggle switches. The output component will consist of pilot lamps. The testing phase aims to determine the proper functioning of all module trainer components. The ADDIE method and a questionnaire will be utilized as measurement tools in this research. The objective of this study is to assess the feasibility of the created PLC trainer as a learning medium. A PLC-based trainer product is highly suitable for PLC practical exercises, as evidenced by student validation, with an assessment score of 88.28% (highly suitable)..

Keyword: *PLC, PLC Trainer, Proximity Sensor, Addie Method, Kuesioner.*

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