

# DEVELOPMENT OF ADAPTIVE CLASS ASSESSMENT BASED ON LEARNING MANAGEMENT SYSTEM FOR ELECTRICAL ENGINEERING EXPERTISE PROGRAM IN VOCATIONAL SCHOOL

by Samsul Hadi, Haryanto

## ABSTRACT

*This study aims to develop a classroom assessment tool that can be used in LMS-based adaptive assessment and test the appropriateness of the classroom assessment tool.*

*This research is development research. The development research model used is the scale construction process with the following steps: articulate construct and context, choose response format and assemble initial item pool, collect data from respondents, examine psychometric properties and quality so that a final scale is obtained. Respondents of this study were experts who assessed the validation and students of the Vocational High School of Electrical Power Installation Engineering Expertise. The data analysis technique used is instrument analysis using classical test theory and descriptive statistics. The results of the study are: the construct of selected class assessment tools is easy to implement in a computer program. Multiple choice questions with 5 alternative answers. The attitude questionnaire is made in the form of a case assessment with 4 alternative answers, while the observation guidelines are made in the form of a short entry with numbers between 1 and 4. The questions developed have 60 items. Items with less validity are 0, moderate there are 55, and high is 5 with Alpha reliability of 0.934. The attitude questionnaire developed consists of 8 items. The items with less validity are 0, 6, and 2 with high Alpha reliability of 0.731. The observation guide developed contains 16 points of observation. Items with less validity are 0, the medium is 15, and high is 1.*

*Kata Kunci: adaptive, Learning Management System, classroom assessment*