

# LABORATORY MANAGEMENT MODEL TO SUPPORT THE ACHIEVEMENT OF VOCATIONAL SCHOOL GRADUATES' PROFILE

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## ABSTRACT

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This research aims to: (1) describe the current vocational school laboratory management model, (2) find a feasible and practical laboratory management model, (3) find the level of feasibility of the laboratory management model, and (4) find the practicality level of the vocational school laboratory management model.

The method used to achieve this goal is Research and Development from Borg & Gall (1983). The initial research data collection techniques for quantitative data were in-depth interviews, observation, and documentation, while for qualitative data a questionnaire was used with 25 respondents from SMKN 2 Pengasih, SMKN 1 Pajangan, SMKN 2 Depok, SMKN 3 Yogyakarta, and SMKN 2 Wonosari. The model feasibility test was validated by 4 experts each in the field of laboratory management and experts in vocational learning models. Trials to find the level of practicality of the initial and final models were given to 40 respondents, namely vocational school students from provinces on the islands of Java, Sumatra, Kalimantan, Sulawesi and Bali. Determining respondents for validation of the initial and final models used the Delphi technique by distributing a Likert scale questionnaire with five alternative choices. Research data was analyzed using the Miles and Huberman model (2014) and quantitative data was analyzed using percentage techniques.

The results of the research are: (1) Current laboratory management is still not feasible and practical as indicated by (a) the school's internal management system in Kalbeng administration is not yet in line with needs, (b) the implementation of the selection process for administrative administrators in Walwalncalra is not yet complete, (c) is still in progress, (d) has not yet made an effort to improve Kalbeng's competence through external training "management of school work laboratories", has not yet assessed the performance of a programmed school laboratory and has not yet used national assessment instruments which can measure the level of performance of Kalbeng, and Kalbeng's performance reporting is still in progress. relatable and not yet programmed back; (2) Design a practical and practical Vocational School laboratory management model to be implemented in Vocational Schools with stages (a) main model of laboratory management, (b) sub-model of Kalbeng main tasks and functions; (c) Kalbeng external diclalt submodel; in (d) Kalbeng performance assessment submodel; (3) The level of reliability of the final model of vocational school laboratory management, which is the basis for evaluating the final model in 3 (three) sub-models in laboratory management, obtained a reliability score of 87.65% (very feasible); and (4) The level of practicality of implementing the final model of vocational school laboratory management, which is the basis for assessing the final model in 3 (three) sub-models in vocational school laboratory management, obtained an average score of 86.29% (practical value).

Kata Kunci: *Key words: model, management, laboratory, graduate profile, and vocational school.*