

# DEVELOPMENT OF MOOCS SYSTEM FOR IMPROVING THE PROFESSIONAL COMPETENCE OF AUTOMOTIVE VOCATIONAL SCHOOL TEACHERS

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## ABSTRACT

Automotive teachers are required to constantly develop their professional competence in line with rapid technological developments. With the increasing trend of training models in the industrial 4.0 era, the MOOCs format is claimed to be able to achieve all the limitations of accessibility and affordability of training, including for vocational teachers in the automotive sector. Therefore, this study aims to: 1) Know the needs for developing MOOCs, 2) Produce a MOOCs system design. This research is research and development with the following stages: 1) Analysis of the needs of MOOCs, 2) Designing MOOCs products, 3) Evaluation of developed MOOCs design products. But in this first year, it was carried out only until the second stage. Data was collected through interviews and questionnaires. Data were analyzed through thematic analysis and quantitative descriptive analysis. The results showed that: 1) The need for developing MOOCs for the development of MOOCs for the development of professional competence for vocational teachers in the automotive field includes: a simple and attractive display, complete information system features to support online training, materials provided according to teacher needs based on material level, and media presented interactive and varied; 2) The results of the development of the MOOCs design are in the form of MOOCs display designs for instructors, trainees, and administrators accompanied by a flow chart of the training information system platform, so that they can be realized into real products. 3) the design of MOOCs is declared feasible, seen from the feasibility aspect including appearance aspects (feasible), MOOCs design features (feasible), and flow charts of MOOCs development in the feasible category.

Kata Kunci: *MOOCs, Distance learning, Teacher Training, Vocational training, Automotive Engineering.*