

READINESS OF THE VOCATIONAL SCHOOL IN FACING THE CHALLENGES OF THE 4.0 INDUSTRY ERA

by Prof. Dr. Herminarto Sofyan, M.Pd Dr. Putu Sudira, M.P. Dr. Gunadi, M.Pd. Drs. Wardan Suyanto, MA, EdD. Student: Muhammad Nurtanto, M.Pd Ranu Iskandar, S.Pd

ABSTRACT

ABSTRACT

Education is the most strategic sector in national development, especially vocational education in preparing skilled workers who can fill development needs. The world of education, especially vocational education, is faced with the rapid advancement of science and technology, where many jobs and old ways of working will be lost, replaced by the role of technology and intelligent machines, while new types of work emerge. Therefore, vocational schools must change, by responding to the Industrial Revolution 4.0 and vocational schools must be able to prepare skills that need to be provided to students to adapt to the types of future work. The output of this research is an indexed international seminar proceeding article about school readiness in facing the demands of the industrial era 4.0. Work that was originally done manually and only relies on cognitive alone has begun to be replaced by machines or robots and information technology, will eliminate basic skills, and be replaced by new types of work that cannot be imagined. The research was conducted using survey research developed from examining literature reviews and the new context of Industry Revolution 4.0. Data analysis used interpretive descriptive, based on the readiness of vocational schools in responding to the industrial era 4.0. The findings in this quantitative research are the production of a hypothetical model of learning in vocational schools. The exploratory studies that have been carried out obtained the following findings: (1) Integrated learning between online and offline learning approaches chosen are e-learning (6.58%) and blended learning (17.5%), while online learning is 75.34%, finding many variations. New approaches have been adopted by vocational teachers including E-Learning at 54.8%, Google Classroom at 8.22%, Flexible learning at 8.22%, and blended learning at 4.11%; and (2) the readiness of vocational teachers in facing the industrial revolution 4 which is reviewed based on the involvement of digitalization transformation in the implementation of learning by 79.8%, the principles of design in the implementation of learning are 77.8%, learning innovations that have been carried out by vocational teachers are 75.00%, and the development of skills that have been carried out by vocational teachers is 77.4%

Keywords: Vocational school readiness, vocational school, Industry 4.0

Kata Kunci: *Vocational school readiness, vocational school, Industry 4.0*