

Adaptation of TVET Philosophy and the Context of Digital Transformation in the New Construction of Vocational Learning in Vocational Schools in DIY

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ABSTRACT

Adaptation in the form of cognitive construction of new concepts of vocational learning and new learning experiences in vocational learning as a result of changes in patterns and basic concepts of thinking based on TVET philosophy and the context of digital transformation urgently needs to be researched. This research aims: (1). Describe the adaptation model of the TVET philosophy in a new construction of vocational learning in the area of expertise in Electronic Engineering Vocational Schools in DIY. (2) Describe the adaptation model of the Digital Transformation context in the new construction of vocational learning in the area of expertise in Electronic Engineering Vocational Schools in DIY. (3) Describe the model of vocational learning tools in the field of expertise in SMK Electronics Engineering according to the adaptation of the TVET philosophy and digital transformation. This research is a Research by Project (RbP) type of research with the following steps: (1) Study of the literature on the establishment and meaning of the TVET philosophy and digital transformation into new constructions of vocational learning; (2) Drafting the adaptation concept of TVET Philosophy and digital transformation into a new construction of vocational learning; (3) FGD on the concept of TVET Philosophy and digital transformation into new constructions of vocational learning with SMK teachers; (4) workshop on developing new learning tools based on TVET Philosophy adaptation and digital transformation; (5) workshop on quality assessment and revision of new learning tools based on TVET Philosophy adaptation and digital transformation. The research subjects were 20 teachers of Electronic Engineering at Vocational High Schools in DIY. Based on the analyzed data and discussion, it can be concluded: (1) Adaptation of the TVET Philosophy in the new construction of vocational learning in the area of expertise in Electronics Engineering Vocational High Schools in DIY is carried out through curriculum synchronization which is increasingly related to work, syllabus development, lesson plans, teaching materials, Modules, LKPD, Learning Media, and process improvements by applying learning models and methods that activate students more, improving the quality of internships, digital technology adaptation, competency certification, and implementing occupational safety and health so that learning outcomes achieve an increase in work attitude, work habits, and strong job appreciation. (2) Adaptation of the context of Digital Transformation in the new construction of vocational learning in the field of expertise in Electronics Engineering Vocational Schools in DIY is carried out through improving the learning process based on IT, the Web, the use of extensive learning resources, AR technology, VR, AI, robots, cloud computing, big data analysis. (3) Vocational learning tools in the field of SMK Electronics Engineering expertise as a result of adaptation of the TVET philosophy and digital transformation in the form of syllabus, lesson plans and new teaching materials that integrate Basic Skills and Cross-functional Skills.

Kata Kunci: *Employability skills, TVET Philosophy, Digital transformation, Vocational learning*