

## **Scientific Praxis of Technical and Vocational Education in Indonesia**

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### **ABSTRACT**

The field of technological and vocational education (PTV) continues to experience development in line with advances in science and technology that demand innovation and creativity so as to produce a workforce that is ready to be used in the world of work. The 3rd UNESCO Congress in the field of Technical and Vocational Education and Training (TVET) agreed that the vocational education sector will be the main driver of world economic growth. As higher education institutions that produce prospective educators, LPTKs in the PTV field are required to carry out studies and research continuously to improve quality of vocational education in Indonesia. PTV science is an important instrument in the educational process. In line with developments in science, technology and art as well as increasingly complex future demands, a PTV system is needed that is adaptive and anticipatory to the demands of the times, yet easy to implement in educational practice. However, in the Indonesian context, the scientific concept of PTV has not been well formulated. Indonesian National Qualifications Framework. The aim of this research is to obtain a formulation: (1) obtain a definition of PTV; (2) Get an overview of the basis for PTV development; (3) Get an overview of the role of PTV; (4) Get an overview of the scientific components of PTV; and (4) Produce a formulation for the scientific development of PTV in Indonesia. The research was carried out in stages: (1) identification of scientific developments in technology and vocational education through literature reviews and surveys in the field; (2) preparation of draft analysis; (3) Focused Group Discussion; (4) validation; and (5) refinement of findings. Data sources in this research include experts, practitioners and PTV stakeholders. Data were analyzed descriptively. The expected research results are in the form of a scientific formulation of PTV and its development. It is also hoped that the research results can become a reference for the development of PTV nationally.

Kata Kunci: *Technology and Vocational Education, Science, UNY*