

THE TEACHER'S COMPETENCY MAPPING OF TECHNOLOGY AND ENGINEERING EXPERTISE PROGRAM IN VOCATIONAL SECONDARY SCHOOLS

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ABSTRACT

The aims of this research were to obtain information on the teacher's competency mapping of Technology and Engineering Expertise Program (TEEP) in Yogyakarta Special Territory (YST), and to develop the prototype of web-based application program for those of the teacher's competency mapping. Survey and development research methods were conducted in this research. Population in this research were all teachers of TEEP in YST of 1025 people with sample size of 280 people determined by Krejcie's and Morgan's formula and distributed of each teacher's sample in each regency and city were done by proportional random sampling technique. Data were collected by an open-ended questionnaire developed through focus group discussions by the educational experts and practitioners. Data were analyzed descriptively. The results of the research can be known the competency mapping of (1) the Automotive Engineering Expertise Program is the largest (44.6%) mainly on the Light Vehicle Engineering Competency Program (35.0%), while the Geomatics is the least (0, 7%); (2) most of teachers' educational (78.9%) are undergraduate or strara-1 and at least (9.3%) teachers educated D-3 alumni, most of teachers (41.4%) have been working between 7-18 years and 8.6% teachers were between 4-6 and 31-60 respectively; (3) teachers who have obtained the teacher's certificate by the Teacher's Profession Training of 43.2% and by the portfolio of 21.1%, and the rest of 35.7% teachers didn't have the teacher's certificate, and (4) most of teachers (66.4 %) didn't get the additional expertise, but teachers who had the additional expertise, among others as assessors (15.7%), as instructors (3.2%), as assessors and instructors (1.1%), for reinforcement expertise (9.6%,) and for additional skills (3.9%).

Kata Kunci: teacher's competency mapping, teacher's professional development, technology and engineering expertise program, vocational secondary school.