

Mongkhol Feungkachon 2014: Learning-Teaching Activity Development for the Project subject by Using Research Process of Teachers in the Industrial Program: A Case Study of Phra Nakhon Sri Ayutthaya Polytechnic College. Doctor of Philosophy (Vocational Education), Major Field: Vocational Education, Department of Vocational Education. Thesis Advisor: Associate Professor Varataya Thammakittipob, Ph.D. 276 pages.

Learning-teaching activity for the project subject by using the research process is regarded as the innovation that assists teachers to enhance thinking skill of students. Therefore, the purpose of this research is to develop learning-teaching activity for the project subject by using research process of teachers in the industrial program: a case study of Phra Nakhon Sri Ayutthaya Polytechnic College. This research is based on quantitative research which is divided into 3 phases. Phase 1: studying the learning-teaching activity development for the project subject by using the research process of teachers. The research population is composed of 33 teachers who teach the project subject. Moreover, the research tools are questionnaire, percentage, mean and standard deviation used for data analysis. Phase 2: synthesizing learning-teaching activities for the project subject by using research process. The research data is provided by 18 experts. Likewise, research tools are the minutes of focus group discussion while percentage, median and interquartile range are used for data analysis. Phase 3: Trying out learning-teaching activity for the project subject by using research process. The population of this phase is 33 teachers of project subject including the research tools, namely the training result assessment form and mean for data analysis.

The research findings are displayed as following: 1) the teachers of project subject have the requirement level of learning-teaching activity development for the project subject by using research process in all 39 items. 2) learning-teaching activity for the project subject by using research process of teachers consists of 5 activity sets, namely project topic selection, research design, research tool creation, data analysis and project report writing. 3) The tryout result of learning-teaching activity of the project subject by using research process, activity set 1-5, shows that the achievement test results before and after having a training course are correlated. It can be concluded that teachers who are trained in learning-teaching activities for the project subject by using research process can achieve the higher scores of the post-test. Importantly, it is recommended that school administration and teachers are able to bring the learning-teaching activity for the project subject by using the research process model to define their schools' policies in terms of practical learning-teaching activity of the project subject.

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Thesis Advisor's signature