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#### Abstract

The research was aimed to study conditions of technical instructors teaching in Industrial fields at various technical colleges of Vocational Education Department as well as factors prospect affecting educational technology application of those teaching in Bangkok and peripheral areas.

The population of this study was 443 instructors teaching in Industrial fields in the first semester of the academic year 1999 at 9 technical colleges : Kanchanaphisek Mahanakorn Technical College, Donmuang Technical College, Dusit Technical College, Minburi Technical College, Ratsittaram Technical College, Nakhonpathom Technical College, Pathumtani Technical College, Samut Prakarn Technical College, and Samut Sakorn Technical College. The data were collected through a questionnaire which had 0.96 reliability and consisted of multiple choice, completion, including five-scale rating. Subsequently, the data was analyzed by virtue of percentage, mean, standard deviation, and coefficient of multiple correlation.

The result of this study indicated that the majority of instructors was male and not less than 41 years of age, graduated with a Bachelor's Degree, worked as a government official between 16 and 20 years, as well as taught more than 20 periods a week. In comparison with other fields, the number of instructors in Electronics was minimal and they were educated and trained relating, more or less, educational technology.

It was apparent that the factors affecting educational technology application of technical instructors were statistically 0.05. They were as follows:

1. The factors regarding educational technology knowledge affected educational technology application conditions.

2. The factors concerning educational technology knowledge and working period affected educational technology application preference.

3. The factors involving education and training experience, working period, educational technology knowledge, sex, degree, as well as teaching hours (period per week) resulted in hurdles and barriers in term of education technology application.

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