

Jomsurang Limprasertkul 2006: Learning Achievement of Vocational Diploma Level Students through Web –based Instruction on Basic Pneumatics in Different Attitude on Web – based Instruction. Master of Education (Educational Technology), Major Field: Educational Technology, Department of Educational Technology. Thesis Advisor: Associate Professor Narong Sompong, Ph.D. 135 pages.
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The objectives of this research were: 1) to develop web-based instruction of basic pneumatics for vocational diploma level students with the efficiency of 80/80 criterion; 2) to compare the learning achievement of vocational diploma level students who have different attitudes on web – based instruction; and 3) to compare the negative attitudes of vocational diploma level students before and after learning by web-based instruction of basic pneumatics

The population was 237 vocational diploma level students in Technical College, Nakhonsithammarat enrolling in Pneumatic and Hydraulics in the second semester of academic year 2005. Research samples were 30 positive attitude students and 30 negative attitude students. Both of them were assigned to learn on Basic Pneumatic for three times, two hours per time. The instrument of this research was Web-based Instruction on Basic Pneumatic. Data were analyzed by t- test and mean.

The results showed that: 1) the efficiency of web-based instruction was 86.78/80.50; 2) the learning achievement of positive attitude students and negative attitude students who learned by Web-based Instruction were different at the significantly level of .01; and 3) after negative attitude students studied by web-based instruction their attitude was likely to change to positive.

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