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Thesis Title : Instructional Packages for Mechanical Drawing and Reading on "The Drawing by The Technical Pen in the International Organization for Standardization (ISO)" for Higher Vocational Certificate Curriculum.

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Abstract

According to the higher vocational certificate in Industrial Technology curriculum, the "Teaching of Mechanical Drawing and Reading" has been included. In regard to the detailed analysis of report topics on the course contents documented in the curriculum, it is necessary for the vocational students to study "The Drawing by the Technical Pen in the International Organization for Standardization (ISO)" in order to develop ones' drawing ability in general, as well as of applying this field of study for the future work. This study is aimed to build the international packages for mechanical drawing on "The Drawing by the Technical Pen in the International Organization for Standardization (ISO)" for higher vocational certificate level, Department of Vocational Education, Ministry of Education and also aimed to determine its efficiency.

Research Methodology: The instructional packages on "The Drawing by the Technical Pen in International Organization of Standardization (ISO)" was built by

the researcher. The packages were tried out with a group of the 40 first-year students studying in industrial technology course at the higher vocational certificate level, Chonburi Technical College. For the classification and evaluation purposes, the researcher gave all students the fundamental mechanical drawing and reading pretest. Then, the theories and the practices were taught through the instructional packages. Students were assigned to finish each exercise in class by the given period of times. When students finished the four given exercises, they have to take the post-test. The total scores of the four exercises were evaluated to determine the efficiency of the instructional packages.

The study showed that the "Instructional Packages on the Drawing by the Technical Pen in the International Organization for Standardization (ISO)" was high efficiency as 86.97/88.59 in regard to the theoretical components and 85.89/85.16 in regard to the practical components. These two components are higher than the 80/80 established criteria.