

Nipon Siripoon :The Construction of Self-Learning Package on Basic Casting Techniques and Its Effectiveness Evaluation for the Diploma Level of the Institute of Technology and Vocational Education Curriculum B.E. 2527. Thesis Advisors : Dr. Suporn Panrat-isra, Mr. Somyos Jetjaroenruk, 1988.

The purposes of the research were to construct self learning package for Foundry I on Basic Casting Techniques for first year diploma students, Institute of Technology and Vocational Education (Rajamangala Institute of Technology), and to determine its efficiency based on the established criteria of 80/80.

After the seven units of self learning package were constructed, they were brought to test with the representative samples who were 20 Machine Tool Technology Diploma students of the Institute of Technology and Vocational Education Northeastern Campus in the academic year of 1988. Students were assigned to the process of self-study session for each unit in order to collect scores from the exercises after finishing the lesson of each unit. Scores were also collected from the achievement test conducted right after the samples finished studying the lessons both theory and practice sessions for all seven units. Data were then analyzed by means of descriptive statistics to determine the effectiveness of the package.

The results of the research indicated that this self-learning package had the efficiency ratio for theoretical part of 87.74/80.50 and the efficiency ratio for the practical part of 83.22/81.34, both were higher than the established criteria.