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Thesis Title : Developing Instructional Modules on the Theory of
the Basic Gas Welding for Vocational Certificate
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Abstract

The purpose of the research is to develop the instructional modules on the Theory of Basic Gas Welding for Vocational Certificate to achieve 90/90 module efficiency.

The instruments for this study were composed of five modules which were developed by the researcher, based on the B.E. 2530 Vocational Certificate Curriculum of the Vocational Education Department, Ministry of Education. The modules were then operated to 37 first year students who majoring in Metal Machanic section at Sattahip Technical College, as the sample group of the study. The sample students had never studied this course before. Three experiments were conducted with group of one, six and thirty students respectively. After the first and the second experiments, the modules were improved and then implemented to 30 experiment students. The data from third experiment were analyzed to determine the efficiency of the modules.

The modules efficiency was 91.74/90.93 which was at the efficiency based on the 90/90 criterion.