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Thesis Title : A Construction of The Automotive Air  
Conditioner Simulator  
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### Abstract

The purpose of this research was to construct an automotive air conditioner simulator instead of using the real one.

After the automotive air conditioner simulator was constructed and sent to the experts to test and evaluate its performance, it was tested with 34 samples who were auto-mechanics students in the academic year of 1993, Phitsanulok Technical College. the samples were divided into two groups -- the experimental and the control groups. The experimental group was exposed to the constructed simulator while the controled group to the real one. After that, both groups were tested with the real system to obtain the performance, the spent cost and duration.

The results of showed that the constructed simulator reached 96 % of efficiency which was higher than the criteria. The performance between two groups was not different at the 0.05 level of significance. Moreover, the spent cost and duration of the constructed simulator was averagely less than the real one.