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AMORN RAT KHAMDAENG : AN APPLICATION OF FAULT TREE ANALYSIS FOR CAUSAL ANALYSIS IN THE NEEDS ASSESSMENT FOR THE DEVELOPMENT OF THE EFFICIENCY OF TEACHER UTILIZATION. THESIS ADVISOR : ASSO. PROF. SUWIMON WONGWANICH, Ph.D. 203 pp. ISBN 974-636-497-9

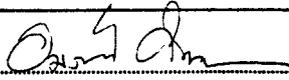
The purposes of this research were to apply fault tree analysis (FTA) for causal analysis in the needs assessment for the development of the efficiency of teacher utilization and to study the appropriateness of the application of FTA technique. The research sample consisted of teachers, administrators in primary schools and experts in educational supervision. The research procedure consisted of two steps. The first step was the conduct of a complete needs assessment process: needs survey by questionnaire, priority setting by paired-weighting procedure and causal analysis by FTA. The second step was the study of the appropriateness of FTA by comparing the results obtained from the FTA technique and those obtained from the synthesis of related literature and experts interview. The results of this study were as follows:

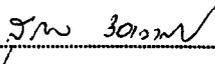
The needs for the development of the efficiency of teacher utilization covered both process and product factors. The most critical needs leading to the inefficiency of teacher utilization was the irregularity of external supervision which was mainly caused by the budget constraint. It was also found that FTA was appropriate to be used for causal analysis due to its ease of practicality. The participants in the FTA process were satisfied with this technique. Most of the causes found were consistent with the experts' viewpoints. But, the results was seldom consistent with those obtained from related literature.

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