

**Independent Study Title**                      Development of a Prototype Expert System as a  
Solution to Problems in Medicine Tablet  
Manufacturing

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**ABSTRACT**

Medical Industries are very important because they are concerning about a lot of people in the world. Most of people who concern in the field of Medical Industries do not have the pharmacy background. When they have the problems, they are usually doing trial and error to solve their problems. The aim of this Independent Study(IS) is to develop a Prototype Expert System as a Solution to Problems in Tablet Manufacturing. I collected the knowledge from the expertists and the text books. The problems that concern about my Independent Study(IS) could define 8 topics. The Prototype Expert System can solve the problems that concern in Tablet Manufacturing. Meanwhile that product quality assurance can be maintained. The Prototype Expert System can achieve cost efficiency and effectiveness in terms of controlling raw material wastage and quality management.

The design and development of the Prototype Expert System was based on the Disk Operating System(DOS) and the shell of this system was "CLIPS". This system can support Thai language by Thai.com. It has 4 steps to design and develop the Prototype Expert System .

1. Knowledge acquisition.
2. Analysis and design the expert system.
3. Knowledge representation.
4. Install the program and Test.

We can conclude that the Prototype Expert System as a consultant machine can support the operationer for a Solution to Problems in Tablet Manufacturing, thus, fulfilling the overall objective of the Independent Study.