

Chantima Rodkong 2010: Design and Development Risk Assessment Program: Case Study Hard Disk Industrial Factory. Master of Engineering (Safety Engineering), Major Field: Safety Engineering, Interdisciplinary Graduate Program. Thesis Advisor: Assistant Professor Kandis Sudsakorn, Ph.D. 161 pages.

The objective of this education is to apply the principal of data management in order to analysis design and develop the information system as a tool for Risk Assessment following the Thai Industrial Standard (TIS 18000) and a tool for standard increase efficiency and systematic data analyzing. This education will apply the risk evaluation data of the Hard disk assembly industry as base information with the development of computer program. The tool that use in the education is System Development Life Cycle : SDLC, Flowchart diagram, Data Flow Diagram (DFD) and Entity Relationship Model : E-R Diagram. The education will utilize PHP language program and MySQL database, Relational Database Management Systems : RDBMS for developing program.

As a result of the research, the program for risk evaluation as per standard industrial products (18000) is finally designed. In addition, it is more accurate and friendly operation therefore it becomes a new efficient program to manage the information of risk indications and risk evaluation. These tools will provide straightforward information for establishing risk indications, risk evaluations and risk management plans that will be essential for administrator decisions. To establish efficient safety criterion and policy.

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Thesis Advisor's signature