

4036787 ENAT/M: MAJOR: APPROPRIATE TECHNOLOGY FOR RESOURCES DEVELOPMENT; M.Sc. (APPROPRIATE TECHNOLOGY FOR RESOURCES DEVELOPMENT)

KEY WORDS : ENVIRONMENTAL ASPECTS/ ENVIRONMENTAL ASSESSMENT/ ISO 14001 ELECTRONICS INDUSTRIAL SECTOR CERTIFIED IN THAILAND

KAEWTA NUNTAJIWAKORNCHAI : GUIDELINE FOR ENVIRONMENTAL ASPECTS ASSESSMENT IN ISO 14001 ELECTRONICS INDUSTRIAL SECTOR CERTIFIED IN THAILAND. THESIS ADVISORS: SAYAM AROONSRIMORAKOT, M.Sc., CHUMPORN YUWAREE, M.Sc., SIRILAK SUWANWONGSE, M.S. 123 P. ISBN 974-664-446-7

Presently, the electronics sector has the highest export value in Thailand. Therefore, the constituent companies in this sector are directly concerned with the international trade standards. One of the most important aspects of international trade standards is Environmental Management System ISO 14001:1996.

The results from Thai Environmental Institute and Department of Industrial Works survey show that the major problem for implementing ISO 14001 is the identification of the environmental aspects involving the ISO 14001 standards stipulated by 4.3.1 clause that requires companies to follow certain procedures in order to comply with ISO 14001 standards. However, although the requirements are clearly stated, the procedure to comply with them remains unclear.

This thesis aims at establishing guidelines for identifying and evaluating the environmental aspects. The study was based on interview and questionnaire directed to the management and representatives of EMR. Moreover, data were collected from procedures used by 38 (ISO 14001) certified companies in the electronics sector. Data was analyzed using percentile and frequency distribution.

The outcome of this study, it is hoped will provide both certified and uncertified companies with guidelines for implementing ISO 14001 standards according to those stipulated by clause 4.3.1 aimed at modifying and improving their procedures concerning environmental safety. The guidelines are easy to understand and to follow. Moreover, they are flexible while being strictly in compliance with ISO 14001 standard requirements.