

電機電子產業之綠色供應商評選量表的建構

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摘要

Due to increasing depletion of global energies, European Union has set up Waste Electrical & Electronic Equipment (WEEE) and Restriction of Hazardous Substances (RoHS) to help protect the natural environment. With the legislation of these directives, environmental factors have become criteria to be considered in selection of suppliers. To cope with this green trend and comply with international laws, many traditional supply chains have also gradually transformed into green supply chains. The main purpose of this study was to investigate the key factors that manufacturers in electrical and electronic industries consider in selection of suppliers and further construct a green supply chain selection scale. Through literature view, this study obtained a number of factors, including green cost, green quality, green image, green specification and certification, and delivery. After questionnaire responses were obtained, this study performed exploratory factor analysis to refine these factors. Through four rounds of factor analysis, four key factors were obtained, including environmental factor, delivery factor, cost factor, and image factor. Factor analysis results showed all the 14 variables included in the environmental factor were focused on the environment. This factor concerned primarily green issues. With the rise of environmental awareness and enforcement of various green laws, suppliers could use these factors as bargaining chips in their cooperation with manufacturers. This study expected that the results could be a reference for the industries on evaluation and selection of green suppliers.

關鍵字：Waste Electrical & Electronic Equipment, Restriction of Hazardous Substances, Green Supply Chain, Green Supplier Selection Scale