

Chirayu Chitchurchun 2012: Integration of Value Engineering and Six Sigma for Automotive Seat Industry. Master of Engineering (Engineering Management), Major Field: Engineering Management, Faculty of Engineering Sri Racha. Thesis Advisor: Professor Emeritus Ampika Krairit, M.S. 117 pages.

This research presents an integrated Value Engineering - Six Sigma framework in studying the design and cost reduction in automotive seat industry. The proposed model focuses on cost reduction, function and quality of a product simultaneously by integrating appropriate tools of Value Engineering in the DMAIC methodology of the Six Sigma. This new process is called Integration of Value Engineering and Six Sigma (IVESS). The proposed model was applied to a case study in automotive seat industry and led to a cost saving in the first case study of 8.48 baht/piece or 932,800 baht/year and in the second case study of 3.45 baht/piece or 758,450 baht/year.

---

Student's Signature

---

Thesis Advisor's Signature