

Title: Quality Management System of Automobile Parts
Enterprises Based on the Special Requirements of OEMs
in China

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ABSTRACT

In China, auto parts companies are the mid-to-upstream supply chain of the entire auto industry, and their overall development level is growing faster than other auto industry companies. With the rapid development of OEM, the integration of upstream and downstream companies in the automobile industry has developed. However, the management level of various companies in the automotive industry is uneven, and the quality supervision is very different. The number and percentage of automobile recalls continue to rise each year. The quality defects of the automotive supply chain bring considerable safety risks to end consumers. Therefore, it is necessary to establish an efficient quality management system and continuously improve the system. The quality management capability of automobile parts has become the cornerstone of the future development of major automobile manufacturers. For automotive supply chain manufacturers, quality management improvement is a guarantee for the company's rapid growth and expansion.

This paper, first, introduces the research background, research purpose, and research significance. Then, this paper analyzes the important contributions of well-known scholars in the field of automotive quality at various levels, introduces IATF16949, the requirements of OEM quality management systems, and Six Sigma research domain theory and results. Secondly, taking the V auto parts company as an example, this study introduced the current status of V auto parts company in the automotive field, the distribution of customers, and the performance of V auto parts company in the client's quality management system. The evaluation is mainly divided into two aspects: the annual quality management system audit performance and the monthly component supplier evaluation performance. Then analyzed the root causes of these unstable performances, combined the methods of PDCA and Six Sigma to optimize the performance of V automobile parts company's unstable quality management system at OEM. Finally, under the premise of limited resources, it improved satisfaction of V Automotive's quality management system on the client side and has improved the operating efficiency of V Automotive's internal components.

Keyword: Quality management system, IATF16949, China automotive industry