

Independent Study Title	Factors influencing the Spare Part Optimization: A case study of Petrochemical Industrial
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Abstract

This independent study is aimed for the relationships between factors and inventory management inside petrochemical industrial for spare part optimization and also aimed for the employee's opinions factor which influences the inventory management for spare part optimization. This research study is concerned to ABC petrochemical company and covered to their stakeholders who are customers and suppliers of inventory i.e. procurement, maintenance and inventory storage. The stakeholder's opinion are surveyed using the questionnaires which are focused on the attitudes in 3 factors (1: Maintenance Policy, 2: Inventory Management, 3: Lead Time) and how they relate with inventory management for spare part optimization. The analysis results data included employee's attitude between important factors level and level of applied factors in company.

The results have shown that factor 2: Inventory Management has high relationship with inventory management for spare part optimization, factor 1: Maintenance Policy and factor 3: Lead Time has medium relationship with inventory management for spare part optimization.

The analysis results of employee's attitude data show factor 1: Maintenance Policy is the most importance factor but currently applied it has been in company at medium level, factor 2: Inventory Management and factor 3: Lead Time are important but currently they have been applied in company at medium level.

In conclusion, the total results show that there are 3 factors influencing the inventory management for spare part optimization. From the view point of employee 3 factors are important to the inventory management for spare part optimization, although the currently application in company are only at medium level. The results show that the company still has room for the improvements of the inventory management for spare part optimization.