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Study and Analyses of Quality Management System

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Abstract

A study and analyses quality management system with respect to fabricated components at Ultra Engineers. This project will believe of the customer towards Fabrications

The analysis of the data obtained had been done by using the bar diagrams, pie chart and on the basis of this at the end of the report a trail has been made to suggest certain steps that may help the company in reducing the constraints and different promotional activities and thereby it helps identify and increase or enhance the awareness of the product and increase productivity with quality.

The basis of finding is company should create the awareness of fabricated parts in the market to follow total quality management techniques. The market should have variety of fabricated components because the consumer wants people should have particular knowledge and that will get by using this kind of products. Finally the whole study of the research works that how customer getting satisfied awareness with quality fabricated Product.

Keywords: Quality Management, KAIZEN, Quality Tools

Introduction

The study revolves around the quality management system. Improving quality is one of the key factors for success to stay in today's competitive marketplace. Purpose of project is to study and analyses quality management system focusing on the needs and processes within organization.

All organizationshave management procedures and instructions for creating and delivering their products to customers. Most have evolved over many years, and are generally

adequate – if they weren't, organisations would quickly go out of business. However poor management systems can lead to wasteful processes, poor products and services, and dissatisfied customers. Company developed and implemented a QMS to demonstrate its ability to consistently provide product (service) that meets customer and regulatory requirements, and to address customer satisfaction through the effective application of the system, including continual improvement and the prevention of nonconformity.

Objectives

Primary objective:

"Study and Analyse Quality Management System with Respect to Pre-Delivery Inspection of Fabrication Components.

Secondary objective:

1. To reduce retapping missing problem by using (TQM) Work guideline.
2. To reduce Small part missing problem by using 7 Quality tools, Check sheet.
3. To study and analyse KAIZEN with respect to Pre-delivery Inspection of Fabrication Components.

Findings and Conclusion

Findings

For quality management and development

Following observations are made during working-

1. Machine parameters are well maintained.
2. Following standards for process.
3. CMM Machine for accuracy is used.
4. Electric current supply as well as earthing is checked regularly.
5. Proper 5S is done.
6. Power should turned off & lockout at electrical panel before servicing.

7. Parts to assemble are checked at inprocess also in PDI.
8. Bom checksheet fill-up regularly
9. Quality alerts are displayed at shop flower
10. PDI inspection done at PDI area only.

Above parameters are mainly responsible for exact size maintained and quality of product

Conclusion

Based on the results and discussion, the following conclusions are drawn by using TQM technique, Retapping Issues are reduced by 21.37% due to improved. As the Retapping Issues are reduced the cost of processing also reduces & Line hour's losses decreases for processing of components

By using TQM technique, Part missing Problem get reduced up to 100 %.As Part missing Problem get reduced reduces, there is better PPM management & higher ok parts. Also, it implements innovative & improved process. Productivity is better as compared to conventional method.

By using Kaizen technique, we got 100 % correct measurement & error is diminished. Kaizen implements innovative process. As we get 100 % correct measurement of product dimension, there is no risk of error in measurement of product. Due to innovative Kaizen process, productivity & quality of product increases.

Scope For Further Research

Determining the scope of the Quality Management System (QMS) has been a part of the ISO9001 requirements for a long time. This scope is a vital part of the quality manual, as it defineshow far the QMS extends within the company's operations, and details any exclusion from theISO 9001 requirements and the justification for these. It is through the scope that you definewhat your Quality Management System covers within your organization.

The scope of the QMS should be based on the nature of the organization's products and theirrealization processes, the result of risk assessment, commercial considerations, and

contractual,statutory and regulatory requirements. The company has established, documentedand implemented a quality management system for the site, which is maintained in order tocontinually improve its effectiveness in accordance with legislation, international standards and best industry practice. The processes that contribute to meeting the requirements of these standards have been determined. The scope of the Quality Management System includes allproducts, including intermediate products, manufactured on site and activities conducted on site.These requirements are aligned with the policies and objectives of the site and include those of the international standard IS0 9001:2015.Should the site be required to outsource any process that may affect product conformity to the defined standards of the Quality Management System then the site will assume control over this process.

- SS Mill production in India is estimated at 2 million tonnes (2007-08).
- SS Flat product production estimated at about 1.5 mill tonnes and SS long products at0.5 mill tonnes
- Production has grown at about 14% p.a. over the last 15 yrs
- India has a 7% share of world production

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