Determination of Cost Parameters in Total Design for Manufacturing Parts

Article 4, Volume 8, Issue 2, Summer 2016, Page 23-29 XML
Document Type: Research Paper

Author

Hojjat - Moeeni
Alliance Academy

Abstract

Design process is a key process in forming of product's cost and if we notify to total design we will see all of the effective parameters in design activities. Design process is contented design planning, design inputs, design outputs, design review, design verification, design validation and design changes. This approach will help us to identify the cost parameters for managing, controlling and reduction. In competitive world class market costing strategy is not limited to sales and marketing sectors in organization but this is multi-dimension approach and could be belonged to multi-functional team. Reduction approach in costing is systematic and continuous methodology that is implemented in total design stages. Cost is important concept and combination of this approach with other process such as designing, planning, and management helps to increase effectiveness and success. Total design is comprehensive process that is covered all of the customer's needs and expectations and regulatory requirements.

References

[1] Pugh, S. "Total Design – Integrated Methods for Successful Product Engineering." Addison-Wesley Publishing Company, 1991.

[2] Little, C. L. D. a. P. "Engineering Design: A Project-Based Introduction." John Wiley & Sons, Inc., 1999.

[3] Olney, R. "Estimating Sheet Metal Fabricated Parts." ETM Manufacturing, 2014.

[4] Kapil Mittal, P. K. D. K. "Evidence of APQP in quality improvement: An SME case study." International Journal of Management Science & Engineering Management.2013.

[5] Klaus Ehrlenspiel, A. K., Udo Lindemann . "Cost Efficient-Design." Springer, 2005.

[6] Hansen-Mowen , "Cost Management accounting & control." South Western Publishing, division of Cengage Learning, 2009.

[7] Administration (IOMA), I. o. M. a., "Cost Reduction and Control Best Practices." John Wiley & Sons, Inc., 2006.

[8] McWilliams, D. M. F. J. "Structured Cost Reduction-Value Engineering by the Numbers." Hewlett-Packard Company.

[9] Alaa Hassan, I. D., Ali Siadat ,"Cost-based FMEA and ABC concepts for manufacturing process plan evaluation." IEEE Conference on Cybernetics and Intelligent Systems, 2008.

Statistics