

MUHAMMAD HAMAD SAJJAD

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OBJECTIVE

To become a good researcher in my field. Moreover to develop and implement tools and techniques which can control variations in processes and enhance Customer Satisfaction which is the main aim of Industrial Engineering

EDUCATION

Industrial and Manufacturing Engineering, Master of Science (2010-2012)

National University of Sciences and Technology, Islamabad, Pakistan

Studies focused in Manufacturing Strategies and Technologies, Computer Integrated Manufacturing, Quality and Reliability Management and Supply Chain Management

Industrial Engineering, Bachelor of Science (2006-2010)

University of Engineering and Technology, Peshawar, Pakistan

Studies focused in Production Planning and Control, Total Quality Management, Human Factors Engineering, Time and Motion Study, Management of Information Systems, CAD/CAM, and Operations Research

Pre-Engineering, Higher Secondary School

Peshawar Model Degree College, Peshawar, Pakistan (2003-2005)

Studies focused in engineering subjects such as Mathematics, Physics, Chemistry, and Algebra. Learned these concepts and applied these concepts to practical issues

COMPUTER SKILLS

MS OFFICE, TORA, AMPL, MINITAB, MATLAB, PRO-ENGINEER, ARENA

PROJECTS

Reduction in Rejection Rate of Polypropylene Bags at Syntron Ltd through implementation of Six Sigma

My Master's Degree research thesis was to reduce the rejection rates of Polypropylene bags through implementation of latest quality tool Six Sigma. Six Sigma is an organized structure to reduce variation in organizational processes by using improvement specialists, a structures method, and performance metrics with the aim of achieving strategic objectives. The very first definition of Six Sigma is that it is a defect rate metric, specifically, it means 3.4 DPMO. During last few years, high rejection rate of polypropylene bags at Syntron Ltd raised the eyebrows of both Customers and top management of the factory. This high Rejection Rate was reducing their profit margins and was earning a bad name for them in market as well. In order to reduce this Rejection rate, it was decided to implement Six Sigma which is the latest and most effective quality tool for controlling variations within the processes. I successfully implemented Define, Measure, Analyze, Improve, Control (DMAIC) methodology of Six Sigma which reduced the rejection rate by 50% which provided a yearly benefit of 11.5 million to that specific manufacturing organization. Hence, quality of polypropylene bags were improved by conducting Design of Experiments (DOE) and customer satisfaction was achieved.

Professional Experience

Instructor of Industrial Engineering (September 2015 to Present)
Alfaisal University, Riyadh, KSA

Main Duties are:

Teaching Tutorials of Operations Research, Production Planning and other core courses of Industrial Engineering along with the Research in various areas

Conducting Labs of Work Systems Analysis and Design, Human Factors and Ergonomics and other courses

Active member of Internship and Library Committee

Purchasing of Lab Equipment

Grading assignments

Assistant Production Engineer (October 2012-December 2014)

Vincraft Pvt Ltd, Risalpur, Pakistan

Implemented 5S, Six Sigma Methodologies and Quality tools to enhance Quality. Moreover, implemented Statistical Quality Control tools like Pareto Charts, Control Charts to reduce Process variations. Successfully reduced the variation in the processes by making

daily/weekly/monthly control charts. Managed Inventory Control and production targets in order to ensure Customer Satisfaction.

Certificates, Seminars and Achievements

Third position holder during MS Engineering

Certified Six Sigma Green Belt from International Organization of Quality Education (IOQE), Islamabad, Pakistan

Participated in the seminar titled “Piles Foundation in Saudi Arabia” at King Salman Social Centre, Riyadh, KSA” and gained exposure in piles foundation

Participated in the seminar titled “Renewable Energy: Opportunities, Challenges and Future Trends” at King Salman Social Centre, Riyadh, KSA”

PUBLICATIONS (UNDER REVISION)

Abstract of Research Paper titled “Six Sigma: A tool to control variations”, recently submitted to “The Quality Management Journal” and “NUST Journal of Engineering Sciences, ISSN: 2070-9900”

REFERENCES

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