Leighton Rankine

Industrial Engineer (Operations) - MHI Aerospace

Summary

Over 8 years proven experience working with ISO 9001-ISO 9004 and Q9000-Q9004 Quality management and systems in certified facilities Proven outstanding track record in designing optimally functional production system and increasing productivity utilizing excellent project management skills Excellent knowledge in applying continuous improvement techniques and analytical tools such as: lean manufacturing, Six Sigma (DMAIC) and SPC to achieve improved business results Proven track record for conducting required business and process analysis utilizing benchmarking principles as required for analysis Possess sound Industrial Engineering principles as related to work study, process analysis and resource planning Computer skills: MS Word, Excel, Power Point, CAD, Minitab 15,Micro Station.VB8, SAP MM and familiar with Access

Experience

Continuous Improvement Industrial Engineer at MHI CANADA AEROSPACE, INC

March 2013 - Present (2 years 10 months)

Utilize LEAN tools and methodologies to drive continuous improvement in the Aerospace manufacturing facility. Identify and carry out Kaizen activities geared at improving productivity in the office and plant environment.. Worked with all cross-functional groups to effect process improvement by reducing downtime and scrap reduction of manufactured products. Create SOP and work instructions and train associates in executing various manufacturing functions. Established 5 S and trained team members and associates on the effective use its Tools and Methodologies. Conduct Capacity planning and Time study for new and existing products in the manufacturing facility. Performs cost/benefit analysis to justify return on investment (ROI) for projects. Works with and support the Quality Team to resolve 8D problem utilizing various tools and methodologies. Train, lead, and facilitate C.I. teams to identify and implement significant improvements in the manufacturing facility using Six Sigma and Lean concepts and principles.

CI INDUSTRIAL ENGINEER at WKW-Erbsloeh Automotive

November 2011 - December 2012 (1 year 2 months)

Utilize LEAN tools and methodologies to drive continuous improvement in the automotive manufacturing facility. Identify and carry out Kaizen activities geared at improving productivity in the office and plant. Worked with all cross-functional groups to effect process improvement by reducing downtime and scrap reduction of manufactured parts. Facilitated cross functional teams to develop root cause determination using Man, Method, Machine and Material Analysis Created SOP and work instructions and train associates in executing various manufacturing functions. Established 5 S and trained team members and associates on the effective use its Tools and Methodologies. Supports Program Managers with the introduction of LEAN TOOLS for new and existing programs for Mercedes, BMW, VW and GM Conduct Capacity planning

and Time study for new and existing products in the manufacturing facility. Performs cost/benefit analysis to justify return on investment (ROI) for projects. Works with and support the Quality Team to resolve 8D problem utilizing various tools and methodologies. Train, lead, and facilitate C.I. teams to identify and implement significant improvements in the manufacturing facility using Six Sigma and Lean concepts and principles. Conduct ergonomic studies upon completion of layout of new manufacturing cells and new machine addition to production lines. Key Achievements: • Utilized Lean Principles of SMED reduce stamping presses setup time from 90 minutes to 8 minutes. • Implemented Quality gates which eliminate expedites (from $850K to $0 over five month period). • Reduced scrap from 23% to 9% over a five month period. • Utilized Kaizen activities to increased productivity on a non-productive Buick line utilizing reduced workforce.

Methods Product Development Engineer at Bombardier Aerospace

January 2011 - November 2011 (11 months)

Developed and deployed LEAN and Achieving Excellence concepts and tools in the new Global 7000 / 8000 business aircraft project. Wrote LEAN section Final Line Assembly manufacturing plan for new Global aircraft. Conducted daily team meeting and weekly problem solving sessions. Participated in suppliers selection for aircraft components. Developed KPI's for the six operations levers (SAFETY, QUALITY, PRODUCTIVITY, HUMAN DEVELOPMENT, COST, AES). Instituted and developed Point of Use Tool cabinets for aircraft production assembly bays. Worked with existing Global program to Value stream map of current and the development of future state. Coordinated and facilitated change management program for manufacturing facility. Coordinated the development of Health, Safety and Environmental projects and policies including emergency response plan for the Aerospace facility. Trained team members on MOST system for use on existing lines and for new product development Key Achievements: •Used Lean tools to Reduce aircraft delivery times from 45 days to 23 days over a five month period. •Developed and tracked KPI to measure progress of projects which resulted in a 23% turnaround times. •Reduced downtime by 30% through effective planning.

Continuous Improvement Engineer at Yamaha Motor Manufacturing -Georgia USA

August 2010 - December 2010 (5 months)

Created work instructions, visual aids and process standards for ATV, Golf car and WV manufacturing assembly operations. Conducted Line balancing activities for ATV'S, Golf car and Water vehicle (WV'S). Created approved process documentation for every process assembly in manufacturing facility. Utilized MOST system to analyze assembly operations for new ATV and re-designed golf car. Ensured current information is maintained and used in assembly sequence. Created SOP within assembly area for use in process improvement. Developed Value stream map to eliminate MUDA in system. Key Achievements: •Increased production from 450 ATV`s per day to 730 per day through effective line balancing and time study. •Achieved a 45% reduction of machine downtime over a 3 months period.

Consulting Engineer at Torank Engineering consulting

January 2009 - August 2010 (1 year 8 months)

Quality EngineeringIndustrial Engineering projects; LEAN and productivity Improvement; Time study; Cycle time reduction. Utilized Quality Engineering procedures and deployed FDA Quality System and regulatory procedures. Developed and deployed Health and Safety policies, programs and procedures for facility.

Industrial Engineer at Food Specailties Limited

October 2005 - January 2008 (2 years 4 months)

Conducted time studies and work simplification programs that resulted in reducing production time in more than fifty percent (50%) of products manufactured in plant. Continuous monitoring of the Hazard Analysis and Critical Control Point (HACCP) program including staff training and developed FDA Quality system for the manufacturing facility. Created documentation and work instructions for the manufacturing processes. Revised programs by conducting studies that enhanced industrial health and safety with optimum utilization of material, machinery and human resources. Trained production associates to safely operate cookie dough food extrusion machine. Key Achievements: •Reduced batch production time from 18.5 hours to 3.5 hours for a 1200 Kilo batch. •Improved product delivery time to customer from 3 days to 1 day. •Achieved 30 % overall customer satisfaction from order to delivery.

Continuos Improvement Engineer at Sobeys Inc

April 2005 - September 2005 (6 months)

Continuous Improvement Industrial Engineer- (Contract) Sobeys Inc, Toronto ON 2005 Analyzed statistical data and product specifications to determine labour and performance standards for the various warehouse distribution centers in unionized environment Recommended methods for improving utilization of personnel, material and utilities Conducted equipment calibration and justifications on projects

Skills & Expertise

Six Sigma
Industrial Engineering
Minitab
Lean Manufacturing
SPC
Quality Auditing
Supplier Quality
PFMEA
Kaizen
APQP
Kanban
Value Stream Mapping
Toyota Production System
PPAP
5S
Machine Tools

Process Improvement
Automotive
TS16949
Supply Chain Management
Continuous Improvement
Quality System
SMED
Manufacturing
FMEA
Quality Management
ISO
Automotive Engineering
DMAIC
GD&T
JIT
Manufacturing Engineering
Cross-functional Team Leadership
Production Planning
Manufacturing Operations Management
Poka Yoke
Aerospace
Quality Control
Root Cause Analysis
MRP
Injection Molding
Product Development
Engineering
Manufacturing Operations
Materials Management
Program Management
TQM
Stamping
DFMEA
Materials

Education

University of Missouri-Columbia
BS Industrial engineering, Quality Engineering; Project Management;SAP, 1991 - 1994

University of Missouri-Columbia
Bachelor, Industrial Engineering, 1991 - 1993

University of Technology (CAST)
Diploma, Mechanical Engineering

Interests

Quality Initiative, Safety in workplace, Avid Sports Enthusiast

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Contact Leighton on LinkedIn