

KUMARESAN

SENIOR MANAGEMENT PROFESSIONAL

QUALITY / PROCESS - Steel Foundry

kumaresanpandu@yahoo.in / Kumaresanpandu@outlook.com +91-9843460916

Core Competencies

Quality & Process - Product Assurance & Alpha set Moulding & All special process control.

Quality Audits & Compliance & Certifications and approvals.

QMS/EMS/OH&S Management system implementation.

Welding Process / Heat Treatment. & Supplier Quality

Moulding & Melting Production

Corrective actions (CAPA) & Investigation. Handling customer/Internal NCR.

Lean Quality Tools & Calibration

Costing / Feasibility study (Quality & Manufacturing)

NDT - RT,VT,PT,UT,MT / Inspection

Destructive Testing / Sand Testing/ Spectro Analysis /Image analysis

Profile Summary

- Quality Assurance & Manufacturing Process professional with 26 years of rich experience in Quality Management, Melting ,Molding and fettling. Destructive and Non-destructive Testing, Cost Optimization, Inspection & Auditing across steel foundry; establishing Quality Management System and ensuring Supplier, In-process and Product Quality.
- Heat Treatment Process Expert.
- Extensive knowledge of Non Destructive Testing (NDT) RT, MT, PT, VT and UT (SNT-TC-1A Level -II) Interpretation of castings quality as per ASTM /ASME / ISO /EN standard)
- Comprehensive knowledge of Lean Quality Tools like FMEA, Pareto Chart, Fish Bone Diagram and 8D Methodology and implemented Kaizen and 5 S
- Implemented the QMS, EMS and OH & S Management systems; worked for obtaining certification for the same and ensured continuous improvement by identifying the gaps in the IMS systems and driving quality production.
- Lead Auditor -QMS (ISO 9001: 2015) and Internal auditor in EMS (ISO 14001-2015), OH &S (ISO 45001-2018), ISO/IEC 17025:2017; Excellence in conducting process audits and inspection to ensure stringent quality control; adapting & implementing stage-by-stage quality system to ensure adherence to technical specifications and standards to achieve customer satisfaction.
- Coordinated to meet the production target. Monitoring the alpha set sand molding process and execution of Melt in Induction Furnace.
- Certified Welding Inspector; Expertise in welding inspections, and qualification of welders, ensuring compliance with code s, standards, customer specifications
- Exhibited leadership in **identifying & verifying quality issues** or trends in the assigned product based on data , **Implementing corrective actions**.
- Responsible for **calibration of all measuring and monitoring instruments**.
- Worked independently for PED 2014/68/EU, NORSOK, Marine, BS EN 15085-2 and API 20A certification for the foundry.
- Strived to maintain customer rejection at zero and internal rejection <0.50%.

Total Experience: 26 Years - HISTORY

Aug '21 - Till Now self-employed - Consultant and Technical advisor to steel foundries

Apr' 18 - Mar' 21 Karmen International Pvt Ltd , Cast metals Division - D G M - Process & System

Dec'09 - Apr' 18 Karmen International Pvt Ltd , Castmetals Division - Manager -QA

Aug'08-Apr'09 Peekay Steel Casting, Coimbatore as Assistant Manager -QA

May'01-Aug'08 Ultimate Alloys Pvt. Ltd., Coimbatore as QA-Incharge

Dec'98-May'01 M/s Lakshmi Electro Smelter - Aluva, Kerala as In charge-Quality

Jul'95-Apr'98 M/s Sivananda steels Ltd., Chennai as Chemist-QA-lab

May'94-Jul'95 Samco Metals & Alloys (P) Ltd., Vellore (T.N) as Trainee Melting supervisor/Junior Chemist

Notable Accomplishments across the Career

- Qualified foundries to ISO 9001, ISO 14001, ISO 45001, PED and Merkblat W0, NORSOK, API 20A, EN 15085-2, Marine and IBR approvals
- Developed process for critical grades like C12A, 4A, 5A, 6A, Monel, Inconel, NAB and SG
- Achieved the maximum production and dispatch tonnage.
- Managed heat treatment furnace operations and fixed Heat treatment cycles, grade wise to meet required critical casting hardness, Micro structure and Mechanical Property
- Achieved 100% customer satisfaction by managing the quality of product by process audit and system audit
- Used lean quality tools to analyze, take effective corrective action and eliminate the problems and wastes
- Credited for qualifying 20 welders in more than 25 steel grades and few Non ferrous grades (SMAW)
- Achieved Zero Customer rejections by strengthening the molding and melting practices
- Performed Quality Costing for the organization and saved expenditure by 25%
- Estimated price for new material grades and performed Feasibility study for new enquiries.
- Implemented new techniques and process methods to reduce wastage by controlling ,recycling and reusing

Work Experience

May 21 - Till now self employed -As a consultant for steel foundries.

Apr'18-Mar'21 Karmen International Pvt. Ltd., Cast Metal Division, Chennai

Growth Path: Dec'09-Apr'18 Manager - Quality /Apr'18-Mar'21 Deputy General Manager- Systems and Process. **Key Result Areas:**

- Spearheaded QA team and managing 12 engineers for the entire quality assurance functions involving New Products, Customer Quality, Supplier & In-Process Quality. Managed production team in molding and melting to meet customer requirement.
- Prepared/Implemented SOP for inspection and testing of all incoming raw materials, in process and finished products
- Identified, developed & selected new suppliers and implementing Quality Management System at supplier's end.
- Conducted inspections & audits and monitoring activities; preparing observation and non-conformance reports, if required; steered internal audits to ensure system, product & process effectiveness
- Facilitated quality excellence through quality management tools like Lean, Quality, 7 QC Tools, 8 D Methodology Zero Defect and Kaizen.
- Handled internal & external customer complaint investigation, corrective and preventive actions and CAPA are initiated for continual improvement
- Formulated and managed the development and implementation of QA/QC goals, objectives, policies, procedures and systems as defined by management to meet and ISO requirements, internal benchmark with business context and company profitability, including budgetary control
- Ensured all supplier are evaluated . PPAP and APQP records are documented
- Updated quality manual time-to-time with respect to the changes or modification in the process
- Supervised job according to quality control procedure and applied international standards & codes
- Segregated & managed defective products for next process till satisfactory remedial actions are taken
- Performed root cause analysis for the customer complaints and internal non-conformances
- Managing entire gamut of QA work encompassing:
 - o Conducted Feasibility study and Order Review customer wise
 - o Prepared Quality plan ,CCP,PFD,FMEA item wise and QTP order wise.
 - o Approved all the inspection documents from receiving ,in process to final product
 - $\circ\quad$ Prepared all testing procedures , SOP , PSRM, Inspection plan , Process requirements
 - o Fixed targets to reduce rejection, Reduce welding rod consumption, Reduce rework
 - o Performed welding qualification as per ASME, EN, AWS D1.1
 - o Statistical process control in Molding ,Melting, Welding ,Heat treatment
 - o Implemented the QMS, EMS and OH & S Management systems; worked for certification.
 - o Conducted risk Assessment in all activities in foundry
 - o Conducted R & D for new material grades to fix Heat treatment cycle and Polymer quenching.
 - o Expertise in manufacturing of SG, Nickel Alloys and Nickle Aluminum Bronze Castings.
 - o Approval of NDT inspections RT, MT, PT, UT, VT
 - o Approval of sample castings for bulk.
 - Headed the Heat treatment Department.

Education

B.Sc. (Chemistry) from the University of Madras in 1993

Other Certifications

- Certified Welding Inspector Welding Research institute, BHEL- Trichy and welding coordinator as per EN ISO 14731.
- Lead Auditor –QMS (ISO 9001: 2015) From Negeil Bohr- TUV (IRCA)
- ASNT SNT TC 1A Level II in RT,UT,MT,PT,VT
- Certified Internal auditor in EMS (ISO 14001 -2015) and OH &S(ISO 45001-2018)
- Certified internal auditor as per ISO /IEC 17025:2017 from TUV.

Knowledge Purview

- Production Knowledge(Steel Casting)
- Steel Specification, standards and codes.
- Feasibility study
- Costings (Quality and Manufacturing)
- Material Management
- No bake continues mixer Molding Production Line Management (Process and Quality)
- Purchase specification for raw materials fixing
- Incoming inspection for all raw materials
- Preparation of all procedures for all destructive and nondestructive testing.
- Preparation of inspection plan (Receiving /In process/Final)
- Preparation of Quality plan (item wise) / Quality Test plan (Order wise)
- Lean quality Tools (FMEA, Pareto chart, Fish Bone Diagram, 8D Methodology)
- Statistical Process Control
- Implementation of Kaizen and 5S
- Castings Rework / Scrap Reduction and NCR management.
- Customer Handling and PPAP
- Metallurgy (Steel)
- Heat Treatment (Steel)
- Mechanical ,Impact ,Spectro ,Corrosion ,Micro and Sand Testing Expertise
- Process control in Molding -Alpha Set Calibration of continues Mixer / Operations
- Induction Melting Operations
- Melt Charge preparation (Grade wise)
- Welding and welding qualifications .Weld Maps and Major Weld Reports as per ASME /ISO/AWS.
- NDT RT, MT, PT, VT, UT
- Identification /Evaluation of Aspects and Impacts, Hazards and Risk
- Preparation of SOP/WORK INSTRUCTIONS.
- Risk and opportunity Assessment department wise
- Calibration of all instruments and measuring equipment.
- Acid pickling and passivation
- Documentation -ISO QMS,EMS,OH &S,WO & PED, NORSTOK M650, MARINE APPROVAL, EN 15085 -2 CL-1, API 20A, IBR and Nuclear approval as per ASME Sec III
- Trained by reputed customers like caterpillar, komatsu, Sulzer pumps, Wabtec, Dellner.

Residence

Area: Muthapudupet / Town: Avadi / City: Chennai / State: Tamil Nadu.