Fenil Bhupendra Mody

PROCESS ENGINEER – Root Cause Analysis, Process Optimization, Lean Manufacturing

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SKILLS

- **Process Optimization**: Upgraded throughput using SPC, time studies, workflow redesign, and SMED tools.
- **Lean Manufacturing**: Applied 5S, Kaizen, and value stream mapping to reduce cycle time and scrap rates.
- **Root Cause Analysis**: Conducted FMEA, Ishikawa, and 8D to identify defects and eliminate downtime waste.
- **Quality Control**: Facilitated audits, ensured VSI compliance, implemented CAPA, and maintained standards.
- **Technical Tools**: Excel (VLOOKUP, Pivot Tables), Minitab basics, stopwatch time studies, and Tableau.

WORK EXPERIENCE

Plant Process Engineer   **November 2022 – Present**
Westlake Royal Building Products   *Ontario*

- Enhanced uptime 23% by using CMMS tasks, vibration trend logs, and targeted inspections across 12 units. Efforts prevented breakdowns, extended service cycles, and minimized quarterly spare part costs by over $70K.
- Reduced changeover time by 21% by optimizing tool availability, sequencing setup tasks, and staging materials in advance. Increased daily batch completion output while keeping labor hours flat across three production lines.
- Delivered $800K plant engineering project with full lifecycle ownership—scoped, coordinated vendors, and closed on time under budget. Saved $600K through automation tied to PIP, layout changes, and utility optimization.
- Boosted OEE by 14% by leading two targeted efficiency pilots that resolved major downtime patterns. Logs, Kaizen reviews, bottleneck tracking amplified throughput, fully eliminated repeated delays in batch-heavy areas.
- Managed ventilation upgrades, haze control, & building heat system improvements, enhancing indoor air quality & meeting OSHA standards. Advanced worker safety across 3 zones & curbed environmental breaches by 85%.

Process Improvement Specialist   **July 2021 – November 2022**
Jewlr - Safyre Labs   *Ontario*

- Boosted capacity from 400 to 750 parts per shift by redesigning layouts, removing four pinch points, reallocating tasks. Rework declined 22%, while floor utilization efficiency grew close to 17% through steady daily tracking.
- Raised uptime 15% by integrating preventive maintenance timelines, applying vendor lead audits, and correcting polishing cell downtime. Availability scores improved from 82% to over 94% across diverse locations.
- Boosted throughput 19% by standardizing key routines, implementing layered feedback loops, and launching line-specific defect logs. Complaints fell 40%, with all visual inspections always passing audits with zero misses.
- Trimmed scrap by introducing barcode logs, automating error tracking, and enabling real-time dashboards. Per-shift output trends elevated detection, polish rework frequency decreased 35% during critical periods.
- Reengineered changeover routines to eliminate idle lag, map non-productive phases, and compress steps. The optimized process reliable lifted order completion rates and elevated delivery timely using tighter planning.

Continuous Improvement Engineer   **March 2019 – April 2021**
Surat Sitilink Limited   *India*

- Reduced service delays 16% by revising nine public routes, auditing timetables, and simulating interval models based on recent 180-day reports. Optimization reduced missed dispatches and improved rider satisfaction levels.
- Managed full electric bus rollout through prototype review, supplier communication, and test performance logging. Final commissioning met key milestones within eight months, under full regulatory and quality controls.
- Lowered violation rates 15% by auditing existing SOPs, investigating incidents, and leading safety training sessions. Gaps across key teams closed, resulting in cleaner records and fewer repeated documentation issues.
- Enhanced energy distribution across entire fleet by tuning battery profiles, updating idle rules, and planning recharge stops. Adjustments cut frequent overuse issues, helped maintain functional range on all thirty units.
- Digitized daily reporting by converting trip sheets, linking GPS data, and syncing dispatch logs. Automation gave new insights into congestion delays, route-level problems, and planning improvements across key zones.

Process Engineer   **February 2018 – March 2019**
Jewelex India Pvt Ltd   *India*

- Boosted yield 12% by altering casting parameters, installing three custom jigs, carefully removing duplicated steps. Adjustments raised product consistency and further diminished offsite remanufacturing due to mismatches.
- Minimized transfer errors by 67% by isolating handoff points, optimizing two layouts, and limiting few unnecessary routing between polishing and setting zones. Floor efficiency climbed sustained across five daily cycles.

- Saved 20% on abrasives by continuous tracking usage across nine units, analyzing tool wear trends, automating basic order triggers. Longer tool life and better finishing both lowered scrap, especially in higher-grade items.
- Installed fixture sets, mapped four polishing benches, and precise applied calibration blocks to guide final inspections. Rejected parts fell 8%, as tolerance deviations noticeably shrank across mid-tier assembly steps.
- Revamped polishing quality across three production zones by standardizing torch distance, modifying clamp tension, and stabilizing the bench height. Resulted in 11% fewer final inspection rejections over two months.

Junior Process Engineer **November 2014 – February 2018**
Firestar International Private Limited *India*

- Cut defect rate 17% by designing twelve new SOPs, carefully checking twenty-five work zones, and running RCA drills. Team practices substantial elevated reliability across polishing and casting without inflating cycle cost.
- Advanced casting precision 30% by modifying CAD files, improving critical alignment checks, and enforcing fit tolerance standards. Output for three top-selling models continuous exceeded repeatability thresholds in trials.
- Shortened procurement flow 30% by centralizing all request logs, automating order signoffs, and syncing audit dashboards. Vendor responses quickly elevated, and overall lag time between approvals dropped below standard.
- Digitized five batch zones by coding mold logs, shifting manual counts to handheld scanners, and realigning tracking codes. Paper-based records entirely eliminated, raising part traceability and improving overall reliability.
- Reduced lead time 12% by repurposing four inspection rooms, setting visual work timers, limiting idle buffers. These time savings sustained accelerated job handoff, smoothing batch transitions through manual departments.

EDUCATION

Bachelor of Mechanical Engineering July 2011 – May 2014
Government Engineering College, India

Diploma in Mechanical Engineering August 2008 – May 2011
Government Polytechnic College, India

CERTIFICATIONS

- **Project Management Fundamentals**