IMRAN QURESHI

Mechanical Maintenance Engineer

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PROFILE

Mechanical Maintenance Engineer with 7 years in maintenance of rotating equipment in petrochemical plants. At Jubail Petrochem Services, raised work orders and spare parts requests in SAP PM and kept the maintenance backlog under 3 weeks, and led root cause analysis of repeated pump seal failures and reduced breakdowns by 30% within 12 months. Holds a B.Sc. in Mechanical Engineering from King Fahd University of Petroleum and Minerals, plus Saudi Council of Engineers (SCE) membership.

TOOLS AND SKILLS

Rotating Equipment | Preventive Maintenance | SAP PM | Vibration Analysis | Laser Alignment | Shutdown Planning | Root Cause Analysis | Permit to Work | AutoCAD | Spare parts

PROFESSIONAL EXPERIENCE

Mechanical Maintenance Engineer *2021 – Present*

Jubail Petrochem Services | Jubail

- Raised work orders and spare parts requests in SAP PM and kept the maintenance backlog under 3 weeks for the two process units.
- Led root cause analysis of repeated pump seal failures and reduced breakdowns by 30% within 12 months after a change to the flush plan and spare seal stock.
- Planned preventive and corrective maintenance for 140 pumps, 12 compressors and 4 steam turbines across two process units, and issued the weekly schedules in SAP PM.
- Supervised a team of 8 technicians during 2 planned shutdowns with zero lost-time incidents, including permit-to-work control for hot work and confined space.
- Introduced monthly vibration trend reviews with the reliability team, which caught 6 bearing faults before failure and allowed planned replacement.
- Prepared method statements and permit-to-work packages for high-risk maintenance jobs and reviewed them with the area authority before the start of work.
- Aligned new and overhauled pumps with a laser alignment kit and recorded as-left readings in the equipment history.

Mechanical Engineer *2019 – 2021*

Eastern Industrial Contractors | Dammam

- Carried out vibration monitoring and laser alignment of rotating equipment at 3 client plants, and raised defect reports when readings exceeded the alarm limits.
- Supported a 28-day plant turnaround by tracking 350 mechanical job cards to completion and reporting daily progress to the client superintendent.
- Prepared weekly maintenance reports for the client maintenance superintendent, covering backlog, pending parts and overdue preventive work.
- Inspected pump and compressor overhauls against OEM tolerances and recorded the results in the job pack before the equipment was released.
- Issued and closed permits to work for mechanical jobs under the client's permit-to-work system, including isolation and toolbox talks.
- Held handover meetings with operations after each major overhaul and updated the as-left vibration and alignment records.

Junior Mechanical Engineer

2018 – 2019

Eastern Industrial Contractors | Dammam

- Assisted the site mechanical engineer with vibration readings and laser alignment of pumps at two client plants, and filed the as-left records.
- Prepared draft job cards and spare parts requests in SAP PM for review before they were issued to the workshop.
- Supported a planned shutdown by tracking mechanical punch items and updating the daily progress board for the supervisor.
- Inspected incoming spares against the purchase order and recorded shortages before the parts were issued to the job.
- Attended toolbox talks and permit-to-work briefings for mechanical jobs and kept a copy of the signed permits in the job pack.

PROJECTS

- 2023 Unit 2 shutdown, 32 days: planned the mechanical scope of 60 pumps and 4 compressors, including spares, permits and daily progress to the shutdown manager.
- 2 new instrument air compressors in 2022: led installation, alignment and the 72-hour run test, and updated the equipment history in SAP PM.
- Cooling water pump impeller upgrade in 2024 that cut pump energy use by 8%, after a trial on two pumps and a comparison of power readings.

EDUCATION

- B.Sc. Mechanical Engineering, King Fahd University of Petroleum and Minerals, Dhahran, 2018

CERTIFICATIONS

Saudi Council of Engineers (SCE) membership, 2019

LANGUAGES

English (Fluent), Urdu (Native), Arabic (Basic)