

Mechanical Engineer, ATB Sdn. Bhd. Tanjung Bin, Johor

Position Summary

Mechanical Engineer for all mechanical engineering issues within the refinery, covering both static and rotating equipment. The go-to person in the refinery for resolving technical issues regarding mechanical engineering, providing advice to technicians and contractors. Constantly seeking to implement measures to improve safety, reliability and profitability of the plant.

Responsibilities include:

- Supervises the installation, maintenance, repair and testing of a wide range of static and rotating equipment in the Refinery.
- Provide technical guidance to technicians and contractors, ensure compliance with international, industry and company standards.
- Research and recommend value improvement steps to the Refinery.
- Monitors work execution as well as hands-on participation in work processes
- Reviews the incoming daily work orders indicating maintenance and required repairs.
- Raises material requisitions for materials and spare parts and obtains applicable work permits.
- Allocates work to subordinates, checks progress providing instructions and advice as necessary.
- Participates in, and personally carries out the complex installation, repairs and maintenance of a variety of valves, piping, vessels, towers, structural and equipment installations.
- Checks, replacement and repair of valves, pumps, heater, insulation repairs, and scaffolding for other craft works.
- Inspects, checks and tests completed work for conformity to industry standards and Refinery procedures and specifications.
- Completes and processes paperwork related to maintenance works, such as time sheets, materials costs, repairs and activity reports and passes on this information for updating equipment files.
- Participates in the planning for, and execution of, major equipment turn-arounds or shutdowns.
- Supervises the removal, stripping, cleaning, repair and re-assembly of all major equipment included in overhauls.
- Participates in the testing and start-up of overhauled equipment.
- Inspects the work of maintenance team and contractors carrying out related work in the Refinery and Tank farm to ensure compliance with specified terms and conditions.
- Reviews regular reports provided by contractors to assess work progress and status, highlights discrepancies or areas requiring improvement and assists the contractor in resolving problems encountered.
- Assists in the preparation of lists of critical spare parts, consumable materials and special tools or test equipment.
- Assists in the receipt of materials and spare parts through the on-site inspection of delivered materials and may, as necessary, check the in-system operation of alternatively supplied spare parts.

- Advise and suggest for budget plan.
- Follow up for any type of audit and try to meet requirements.
- Provides written reports on materials and equipment not acceptable and passes them to the section head for review.
- Arranges the transportation of materials, to site and coordinates with contractors for heavy equipment and rigging services.
- Co-ordinates for equipment testing and/or fitting work to be inspected by third party inspectors.
- Carries out training of trainees and other subordinates to improve their skills.
- Carries out other similar or related duties as assigned, such as, ensuring the observance of safety and fire regulations, good housekeeping, and that material is salvaged and reconditioned wherever possible, and proposing improvements.
- Reports and discusses accidents, incidents, pollution, or emission occurrences and near misses with the Supervisor.
- Plan for major overhauling with supervisor.
- Develop preventive maintenance plans.
- Review MOC and implementation.
- Expected to support field supervision where necessary.
- Develop technical manuals and company standards.

Qualifications and Experience

- Possess Degree of Mechanical engineering.
- Good English communication skills.
- Aware of refinery CMMS systems.
- Aware with HSE & PTW procedure.
- 10 to 15 years' experience in a Petrochemical or oil & gas industry.

Personal Characteristics

- Good communication and interpersonal skills.
- Ability to work under pressure and manage multiple tasks simultaneously.
- Excellent written and oral technical presentation skills.
- A can-do attitude.
- Global outlook. Able to work across organizational and cultural boundaries.
- Team player, with an open non-political style and a high level of personal integrity.
- Energetic, resilient, and resourceful, with an ability to work accurately under pressure.