

“SCOPE OF MECHANICAL ENGINEERING IN CHEMICAL INDUSTRY”

There is an enormous scope for Mechanical Engineers in chemical industries in the areas of project, purchase, proposal, engineering design, reliability, asset management etc.. The key focus will be to drive continuous improvement in the areas of reliability, planning, scheduling, work quality and safety. Mechanical Engineer can collaborate closely with other team members including the Production, Utilities, IT, Process, R&D, Maintenance Coordinator, Maintenance Planner, Stores Assistant and Technicians etc.

Some of Generic Responsibilities of Mechanical Engineer

- ◆ Proactively identify sources of plant improvement and implement maintenance improvement plans.
- ◆ Manage technical documentation and procedural systems for use by the maintenance team, e.g. critical machine files, lubrication schedules, equipment manuals, failure records, risk assessments, method statements.
- ◆ Administer preventative maintenance systems and ensure condition monitoring procedures are applied to specified equipment, e.g. oil sample analysis, vibration analysis, thereby ensuring reliable and safe operation of the assets.
- ◆ Liaise closely with Operations Department to assist with fault diagnosis and define operating practices for optimum equipment life.
- ◆ Provide input to larger capital expenditure projects in the areas of design, equipment selection, hazard and operability studies, standards and commissioning.
- ◆ Audit maintenance activities to ensure compliance with appropriate technical and safety standards.
- ◆ Identify, implement, and validate as necessary, training to raise maintenance and operational standards and practices.
- ◆ Identify opportunities for optimizing departmental efficiency, including tracking departmental activities through KPIs.

Mechanical engineers can contribute in many ways in manufacturing industries and support to achieve operational excellence, lead management and best in class asset management.



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