

Tooling Engineer

Job Description

Reports to: Engineering Manager

Summary:

Responsible for the design and improvements of plastic injection-mold fabrication processes. Ability to plan the tooling and processes required for the manufacturing of products, with the design and manufacture of the tools, dies and jigs required, and with the control of the production processes.

Qualifications:

Must have knowledge of plastic molding processes and tooling. Possess experience with engineering design changes, emergency tool repair and quality improvement ideas. Creative and progressive thinking required in addition to good communication skills. Bachelor's degree preferred in engineering technology, mold design or computer-aided design (CAD) or other 3D software with a minimum of seven years experience in tooling design and development. Must be proficient in Microsoft Office. (Word, Excel, PowerPoint, Outlook, etc.)

Job Responsibilities:

1. Ability to manage various projects
2. Ability to determine & identify quality issues as relative to injection tool issue, injection process issue, etc.
3. Ability to set-up new injection tooling.
4. Responsible for the engineering, designing, and repairing of industrial tools and equipment.
5. To ensure that all the equipment and machinery being used is in good working order and is compliant with industrial law and regulations.
6. To be in charge of developing and implementing alternative methods and solutions for damaged and ineffective tools and equipment, as well as revising maintenance requirements and methods for industrial tools.
7. Design responsibilities include creating and improving injection-mold machinery using computer-aided design tools.
8. Assist in the research and development of new manufacturing processes by analyzing manufacturing data and suggesting areas for redesign or improvement.
9. Analyze the production line and machinery to help design parameters of the manufacturing process.
10. Works with technicians, production workers and other manufacturing staff to ensure quality output of molded components.
11. Develops new tooling methods, builds innovative tools and revamps tooling standards to reduce production costs.
12. Project scheduling to test new tools and processes.

13. Develop and maintain a close working relationship with the customer to ensure all spec and schedule demands are met.
14. Ability to establish injection tooling specs based on supplier based equipment & requirements in order to get quotes, design & manufacture injection tooling, etc.
15. Develop and maintain a close working relationship with tool makers to meet tooling requirements and schedule requirements.
16. Evaluate and analyze new part designs and determine the most cost effective method to produce the part and define the appropriate tooling and equipment requirements.
17. Make final determination of tooling design to meet manufacturability and maintainability requirements.
18. Evaluate outsourced tooling designs to ensure construction costs and lead times are inline with budgeted expectations.
19. Debug and tryout new tools at Supplier facilities.
20. Implement new tooling into production.
21. Researches new suppliers and tooling concepts.
22. Provide input for troubleshooting and continuous improvement of existing tools and develop potential cost savings to current production processes.
23. Develop budgetary cost for tooling maintenance and new tool purchases.
24. Work with Purchasing to evaluate existing and potential Suppliers to define Suppliers capabilities.
25. Submit and analyze RFQ documentation and perform vendor audits.
26. Evaluate and implement set up reduction process to improve overall efficiencies.
27. Keep Management and Tooling Group current with project status.
28. Ability to quote new parts including method tooling costs production material requirements type of equipment maintenance costs setup costs rates and lead time.
29. Develop tooling design/build standards for all Suppliers to follow.
30. Develop and lead inspection fixture designs.
31. Stay current with plastic materials and tooling technologies to improve manufacturability and process performance.
32. Automotive New Model planning and start-up including tool maturation for assembly issues (fit & finish).
33. Know and follow all TS-16949 and ISO-14001 policies and procedures.
34. Adhere to Company Policies and Regulations.
35. Perform other duties as may be assigned.