

Job Description – Production Engineer (Machine Shop & Fabrication)

Position: Production Engineer – Machine Shop & Fabrication

Department: Production

Industry: Industry Equipment Manufacturing /Cooling Tower Manufacturing

Location: Nuh, Haryana

Job Summary

The Production Engineer – Machine Shop & Fabrication is responsible for planning, coordinating, and monitoring manufacturing activities related to machining and fabrication of cooling tower components. The role ensures production targets are achieved while maintaining quality, safety, cost efficiency, and timely delivery in accordance with engineering drawings and customer requirements.

Educational Qualification

- Diploma/B.E./B.Tech in Mechanical Engineering or Production Engineering.

Skills Required:-

- **6+ years** of experience in machine shop and fabrication in a manufacturing industry.
- Experience in **Cooling Towers, Heavy Fabrication, Process Equipment, Steel Structures, Pressure Vessels, HVAC Equipment, Capital Goods or Heavy Engineering** will be preferred.
- Hands-on experience in fabrication processes and welding techniques (MIG, TIG, ARC welding).
- Ability to read and interpret engineering drawings, fabrication drawings, and GD&T.
- Knowledge of fabrication standards, welding symbols, and inspection procedures.
- Familiarity with production planning, capacity planning, and shop-floor scheduling.
- Understanding of Lean Manufacturing, Kaizen, 5S, TPM, and Six Sigma concepts.
- Knowledge of quality tools and inspection instruments.
- Proficiency in MS Excel, MS Office, and ERP systems (SAP or equivalent preferred).
- Knowledge of conventional machine shop operations (Lathe, Milling, Drilling, Shaper, Radial Drill, etc.).

Key Responsibilities

1. Plan and execute daily production activities for the Machine Shop and Fabrication sections to achieve production schedules.
2. Monitor machining operations including lathe, milling, drilling, shaping, grinding, and other conventional machine shop activities.
3. Supervise fabrication work including cutting, bending, welding, assembly, and structural fabrication as per approved drawings.
4. Ensure optimum utilization of manpower, machines, materials, and production resources.
5. Interpret engineering drawings, fabrication details, BOMs, and technical specifications accurately.
6. Coordinate with Planning, Design, Purchase, Stores, Quality, and Projects departments for smooth production flow.
7. Monitor machine productivity, cycle time, rejection, rework, and downtime, and implement corrective actions.

8. Ensure adherence to welding procedures, fabrication standards, and dimensional tolerances.
9. Conduct regular inspections during production to maintain quality standards and reduce defects.
10. Ensure compliance with safety regulations, PPE usage, housekeeping (5S), and statutory requirements.
11. Identify bottlenecks in manufacturing processes and implement continuous improvement initiatives to improve productivity and reduce manufacturing costs.
12. Maintain daily production reports, machine utilization reports, manpower deployment records, and MIS.
13. Coordinate preventive and breakdown maintenance activities with the maintenance department to minimize downtime.
14. Ensure proper material traceability, inventory control, and reduction of scrap and wastage.
15. Support production trials, new product development, process improvements, and implementation of lean manufacturing practices.
16. Train shop-floor operators on production processes, quality standards, safety practices, and standard operating procedures.
17. Ensure timely completion of production to meet dispatch schedules and customer commitments.
18. Participate in internal audits and ensure compliance with ISO 9001, ISO 14001, and Occupational Health & Safety management systems.