



## Job Description

<b>Job Title</b>	Manufacturing Engineer
<b>Department</b>	Manufacturing Engineering
<b>Reporting Manager</b>	Manufacturing manager
<b>Company</b>	DBUSA
<b>Location</b>	Homestead Florida, USA
<b>Date Updated</b>	July 5 <sup>th</sup> 2023

### **General Summary:**

Manufacturing engineer evaluates manufacturing processes by designing and conducting process analysis; applying knowledge of product design, fabrication, assembly, tooling, and materials; conferring with equipment vendors; soliciting observations from operators.

### **Principal Responsibilities:**

- 1) Complete end to end planning, direction, and coordination of all the manufacturing processes.
- 2) Evaluate and suggest recommendations on the manufacturing quality control processes, types of manufacturing methods to be adopted, list of processes to be followed, tooling and suggest jigs and fixturing.
- 3) Spend time researching the tools, methodologies and processes and finding out solutions to improve production efficiency. Report the shortcomings and suggest counter measure.
- 4) Calculate the workspace requirements, design strategies to utilize the workspace effectively and in line with Lean Manufacturing. Setup of work center and routing need conform to JDE.
- 5) Calculate the production cost, existing production resources, labor resources and do a proper estimation and recommendation to management. In addition, to estimate upcoming manufacturing requirements and help the management to take the right decisions.
- 6) Estimate the number of production personnel for a project, calculate the time involved and related cost, clearly provide direction, training to the production personnel about the workflow, create and improve manufacturing layout for better production efficiency.
- 7) Ensure all the manufacturing processes are in compliance with all government laws and regulations.
- 8) Analyze the manufacturing methods, production processes and the production schedule involved in delivering the project. Get all these details and submit to the management statistical data which in turn helps management to clearly identify the future requirements of manufacturing.
- 9) To develop all the production routing process, product cost standard hour and configurator setup in support of JDE implementation.



- 10) Perform time study, process cycle time, line balancing, process improvement to optimize manufacturing overhead.
- 11) To establish process documentation such as work instruction and manufacturing SOP in support of process change and continuous improvement.
- 12) Coordinate equipment maintenance and repair services and make sure that manufacturer's procedures and instructions are followed to keep production equipment operational.
- 13) Work with production, QC, Engineering, and other departments to improve production efficiency, eliminate 7 types of waste and minimize cost as much as possible.
- 14) Perform any other duties as directed by the immediate superior and/or the Management.
- 15) The Company may at any time, deemed necessary, add, or amend any of these job responsibilities.

#### **Knowledge, Skill, and Ability Requirements:**

- 1) Manufacturing engineers must have knowledge of engineering and production processes.
- 2) Capable of improving production efficiency by knowledge sharing and providing training to other workers who are in the production department of the organization.
- 3) Possess best practices knowledge in 5S+1, value stream analysis (VSA) and value stream mapping (VSM), Kaizen, PDCA, Poka-Yoke, single minute exchange of dies (SMED), PFMEA and so on.
- 4) Engage all the workers as a strong team.
- 5) Organize workplace and control unnecessary wastages.
- 6) Initiate a preventive maintenance program.
- 7) Good in Microsoft, ERP system, CAD/CAM, and related software.

#### **Education Requirements:**

- 1) Bachelor's degree/Diploma in Engineering preferably Industrial or Mechanical Engineering.
- 2) Individuals with more than 5 years of working experience in the related field of HVAC products will be considered.

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