

Key Changes of AIAG-VDA PFMEA, 1st edition 2019:

| 4 th edition FMEA (Old version manual) | AIAG-VDA FMEA (New version handbook) |
|---|--|
| RPN (Risk priority number) = S x O x D | Action Priority (AP) Table. |
| Old Severity, Occurrence & Detection Ratings | Revised Severity, Occurrence & Detection Ratings |
| Old worksheet (Format/ Template) | Revised worksheet (Format/ Template) |
| PFDA was not integral part | Process flow diagram is an integral part in new manual |
| Recommended action | Prevention & detection action |
| Classification | Special Characteristics |
| | 4M-Men, Machine, Material and Method approach |

The complete PFMEA worksheet has been made considering with 7 Steps FMEA approach, i.e. [1] Planning & Preparation, [2] Structure Analysis, [3] Function Analysis, [4] Failure Analysis, [5] Risk Analysis, [6] Optimization and [7] Risk Communication.

- **Planning & Preparation:**

This is the first step of FMEA 7 step approach, A Cross functional team need to be formed and their roles and responsibilities need to be assigned. In worksheet you have to mention those things like Company name, location, PFMEA ID, Confidential Level, etc.

- **Structure Analysis:**

In SA, You have to identify the Process steps i.e. **PFDA**, here you have to identify mainly three things, Process Item, step and work element (4M).

- **Function Analysis:**

You have to describe the function process item in next plat process, end user, customer, and Simultaneously Process and product characteristics needs to be identified.

- **Failure Analysis:**

Here you have to identify the failure effect, mode and cause.

- **Risk Analysis:**

Current prevention & detection control, AP, SC, etc. need to be addressed.

- **Optimization:**

According to Level of AP (Action Priority), if require to take the action then, you have to complete the optimization step and again you have to level the PFMEA-AP.

In previous version there a calculation of RPN, but in new FMEA there is no calculation, just you have to identify the level from Action Priority Table. Priority High of AP level means you must required to identify appropriate action, Medium priority AP level means you should identify appropriate actions.