



The changes on APQP – 2nd Edition and FMEA – 4th Edition

APQP

Advanced Product Quality Planning (APQP) – 2nd Edition

- 1 – Effective from 1/11/08
- 2- Incorporate customer focus process approach
- 3- Update terminology and concepts consistent with ISO/TS, other Chrysler, Ford and General Motor and other core tools manual
- 4- Appropriate references to customer specifics provided without full text

Advanced Product Quality Planning (APQP) – 2nd Edition

The Changes of Terminology

Suppliers → Organization

Subcontractor → Supplier

Advanced Product Quality Planning (APQP) – 2nd Edition

The Changes of Terminology

1. Under Product Design and Development – Transfer Prototype Control Plan from APQP Output to Design Output
2. Under Process Design and Development – Combine the Packaging Standard to Specifications
3. Under Product and Process Validation – Change Production Trial Run to Significant Run and includes Production rate demonstration, Process Review, First Time Capacity (FTC), Sample Parts Approval and Master Samples
4. Add in explanation of Feedback, Assessment and Corrective Action (Reduce Variation, Improve Customer Satisfaction, Improve Delivery and Service and Effective Use of Lessons Learn / Best Practices)
5. Under Control Plan, change the terminology of SUPPLIER to ORGANIZATION.

Advanced Product Quality Planning (APQP) – 2nd Edition

The benefits of 2nd Edition

1. Reduction of Complexity
2. Easily communication to suppliers of product quality planning requirement

FMEA

Failure Mode and Effects Analysis (FMEA) – 4th Edition

- 1 – The format in 4th Edition provides easy reading
- 2- Additional examples given
- 3- Reinforce the management support in review FMEA
- 4- Define linkage PFMEA and DFMEA with other core tools
- 5- Improvement to S.O.D. table
- 6- Introduce other alternative Method with additional appendix
- 7 – Threshold on RPN as practices not be recommended, emphasis should be given to respective S.O.D.

Failure Mode and Effects Analysis (FMEA) – 4th Edition

Others:

1. Emphasize as Proactive rather than Reaction
2. Can be applied to non manufacturing areas such as administration process
3. Under DFMEA, company is required to develop prerequisite information the System, Subsystem or component being analyzed and defined the functional requirements and characteristics. Example of prerequisite are developing Block (Boundary) Diagrams
4. D& PFMEA format changed – Added requirement column and transfer the column of Occ. After PREVENTION & take out 'Rev. date column'
5. Under DFMEA – Severity Table changed (concept remained, more elaborative)
6. Under DFMEA – Occurrence Table changed (Possible Failure Rates)
7. Under DFMEA – Detection Table changed (concept changed that separate into diff. design stages)

Failure Mode and Effects Analysis (FMEA) – 4th Edition

Others:

8. Under PFMEA, Severity Table changed (ranking for Man. / Ass. Effect & more elaborative)
9. Under PFMEA, Occurrence Table changed (add in incident & Failure Rate)
10. Under PFMEA, Detection Table changed (no more double visual and specifies stage on detection)