
PROJECT PLANNING AND QUALITY ASSURANCE FOR AUTOMOTIVE INDUSTRY – APQP/MLA AND PPAP/VDA2 TRAINING PROGRAM

Day 1st

1. Training Course Objectives

- Participants can expect to learn and develop skills to confidently:

Similarities and differences of APQP and MLA the key project planning methods for automotive industry

1.1 APQP/MLA

- Understand and use the phases of APQP and maturity levels of MLA.
- Know the difference between design goals, requirements and specifications
- Link tools to Product Development Process for more efficient use of engineering resources
- Create a Product Quality Plan for Project Management
- Link outputs of key tools: Design / Process Failure Mode and Effects Analysis (DFMEA / PFMEA), Design for Manufacturability and Assembly (DFM/A)
- Define risk and determine levels of risk mitigation
- Select an effective Cross Functional Team (CFT)
- Improve engineering collaboration
- Improve supply chain engagement with the organizations



- Determine design and process special characteristics
- Create and manage action plans for design review
- Manage and store lessons learned for future use
- Understand Control Plan Methodology

1.2 PPAP/VDA2

Because PPAP and APQP cannot be separated as well as VDA2 and MLA, PPAP documents are the result of APQP. PPAP provides evidence that APQP has been successfully performed. Poor performance in a PPAP or a rejected sample can be attributed to poor APQP. Deliverables in PPAP are extensions of APQP Planning. The PPAP elements are listed below, note that many are the same as APQP tools or are the output results of APQP tools:

- Part Submission Warrant (PSW)
- Design Records
- Engineering Change Documents
- Customer Engineering Approval
- Design FMEA (DFMEA)
- Process Flow
- Process FMEA (PFMEA)
- Dimensional Results
- Performance and material test results
- Initial Process Capability Study
- Measurement Systems Analysis (MSA)
- Qualified Laboratory Documentation
- Bulk Material Requirements (if required)
- Control Plan
- Cosmetic or Visual Signoff
- Sample Product
- Master Sample



- Checking Aids
- Records of Compliance with customer specific requirements

2. Workshop and open discussion

3. Test of knowledge

4. Summary.

Training Duration - 2 days

