



COURSE CONTENT: APQP 3rd Edition (1 DAY TRAINING)

Description: This training is designed to educate **product quality planning team** on how to conduct feasibility study, develop, implement **APQP using five phase methodology**. **APQP 3rd Edition** methodology is to aid in launching of new manufacturing process or products according to customer requirement timing. This approach is by using quantitative and qualitative techniques in the various stages during launching of new products or manufacturing process. The phase starts from customer enquiries, product development, sample making, process development, product verification/validation, mass production and customer feedback. Effective quality planning and defect prevention should integrate the development, maintenance and improvements efforts of various departments within a company.

Course Content: How to apply the structured approach in APQP	
Phase 1 PLAN AND DEFINE PROGRAM	• Voice of Customer Needs and Expectations • Determine Product Assurance Plan • Applying Change Management Implementation • Preliminary Process Flow Chart • Special Product and Process Characteristics • SIX Gates Approval Process • Risk Assessment Mitigation Plan • Establish Gantt Milestone Chart • TEAM FEASIBILITY COMMITMENT
Phase 2 PRODUCT DESIGN AND DEVELOPMENT VERIFICATION	• Design for Manufacturing and Assembly • Product Design Verification and Review • Prototype Build Control Plan • Finalise Engineering Drawings • Product & Material Specifications • Equipment, Tooling and Facilities • Gages and Testing Equipment • Bill of Material (Products / Parts List) • Determine Ppk requirements (1.67)
Phase 3 PROCESS DESIGN AND DEVELOPMENT VERIFICATION	• Packaging Standards and Specifications • Finalization of Process flowchart • Measurement Systems Analysis Plan • Product and Process Quality System Review • Floor Plan Layout • PFMEA • Pre-Launch Control Plan • Work Process Instructions • Process Capability Study (Ppk)
Phase 4 PRODUCT AND PROCESS VALIDATION	• Production Trial Run (Sample Run) • Safe Launch Control Plan • Production Control Plan • Process Capability Study (Cpk) • Product Part Approval Process (PPAP) • Production Validation Testing
Phase 5 FEEDBACK, ASSESSMENT and CORRECTIVE ACTION	• Mass Production • Ongoing Reducing Variation • Corrective Action on Feedback • Approval "Red Rabbits" • Records Retention 1st MP Performance

APQP Case Studies and Practical Workshop

- Excel template showing all the 5 phases of APQP milestone to use as reference information during practical training.
- How to use the AIAG checklist

Benefits of using APQ methodology for the company.

- **Reduces product development risks** through systematic planning and risk assessment.
- **Reduces launch delays** through structured project management and milestone tracking.
- **Improves communication with customers and suppliers** throughout the product development process.
- **Promotes risk-based thinking** through the use of tools such as FMEA, Control Plan, and Process Flow Diagram..

Training Expected Outcomes

Course Objective: • To have the knowledge in initiating a quality plan program. • To understand all the different types of qualitative techniques used. • To ensure the launching of the program is time bonded. • To understand and use of quantitative methods during the planning stage. • To provide a workable system to have inter-department involvement. • To understand the concept of program approval, prototype, pilot and launch activities. • To able to focus on the customer requirements. • To provide a base information to be used a company system in quality planning.



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Training Subject

