APQP Key Events

Product Development Gateway

Event 1 - Identify Key Components
- Failure Prevention Analysis
- Level II QFD (System Level)
- Level II QFD (Component Level)
- Sourcing (for key components identified as high risk from Level II QFD)

Event 2 - Identify Key Characteristics
- Define preliminary Manufacturing Process and Feasibility Plan
- Conduct System/Component level FPA session(s) to evaluate design alternatives
- Robustness tool application (inputs to DFMEA)
- DFMEA (identify KDC's and take immediately to PFMEA)
- Design for Manufacturing (DFM)
  a. Review design for good manufacturing practice
  b. Review tolerance requirements for KDC's and the capability of the specific assets planned to manufacture the KDC for compatibility

Event 3 - Characteristic Management
- Create a Process Characteristic Matrix
- PFMEA (focus on key processes identified in the Process Characteristic Matrix and the KDC's identified in the DFMEA (in Event 2))
- Create other "Plans" (Process Capability, MSA, New Equipment, Tooling, and Facilities, Gages and Test Equipment, Packaging, Personnel Training)

Event 4 - Design Verification Planning
- Construct Design Verification Plan

Event 5 - Production Readiness
- Control Plan Review
- Tooling and Asset Review and Management
- Measurement Systems Analysis (MSA)
- Stability and Capability Studies