

Introduction and Course Overview

What is APQP?

Advanced product quality planning (APQP) is a framework of procedures and techniques used to develop products in industry, particularly the automotive industry. It is quite similar to the concept of Design for Six Sigma (DFSS). It is a defined process for a product development system for General Motors, Ford, Chrysler and their suppliers. According to the Automotive Industry Action Group (AIAG), the purpose of APQP is "to produce a product quality plan which will support development of a product or service that will satisfy the customer. Advanced product quality planning is a process developed in the late 1980s by a commission of experts gathered from the 'Big Three' US automobile manufacturers: Ford, GM and Chrysler. This commission invested five years to analyze the then-current automotive development and production status in the US, Europe and especially in Japan. At the time, the success of the Japanese automotive companies was starting to be remarkable in the US market.

The course will ensure delegates to understand how to compile the evidence required during the development process and will explain how client organizations can use the information supplied to gain confidence in their suppliers.

What is PPAP?

Production part approval process (PPAP) is used in the automotive supply chain for establishing confidence in component suppliers and their production processes. The PPAP process is designed to demonstrate that the component supplier has developed their design and production process to meet the client's requirements, minimizing the risk of failure by effective use of APQP.

Objectives:

- Improved knowledge and understanding of the PPAP process
- The purpose and value of the PPAP requirements
- Basic understanding of all 18 required elements
- Introduction to FMEA, Control Plans, MSA, and SPC

Content Outline:

- Explain the PPAP process
- Determining customer specific requirements for PPAP
- Explain how to complete a PPAP package & the contents of the PPAP package
- 18 separate documents.
- What is submitted to your customer? What is to be retained by you?
- Critique on existing PPAP packages for good and bad
- Address TS auditor and customer concerns regarding PPAPS