

APQP Toolkit

2 day programme

Open enrolment classes

- **September 14th – 15th 2026**
(8.30am – 4.30pm BST /
7.30am – 3.30pm UTC)

Fees:

The cost per participant is £450+VAT, which includes comprehensive reference materials.

To book places:

- Please email Smallpeice via train@smallpeice.com with your requirements.
- Our experienced booking team will then send you a booking form.

In-Company Training:

This programme is available for cost effective 'in-company' group training. For more information on the options, please email train@smallpeice.com.

Overview

Advanced Product Quality Planning (APQP) is a structured approach used to ensure products and processes are developed, launched, and delivered with quality, reliability, and customer satisfaction at the forefront. This APQP Toolkit course provides participants with a practical understanding of the APQP framework and the essential quality tools that support successful product and process development. Through a combination of theory, real-world examples, case studies, and discussion of cultural best practices, delegates will learn how key tools – including DFMEA, PFMEA, Control Plans, MSA, SPC, Process Capability, PPAP, and 8D Problem Solving – work together to identify and reduce risk, improve process performance, and support robust quality management systems. The course also explores the organisational behaviours, leadership practices, and cultural factors that enable successful deployment of APQP and its core quality tools across the business.

Objectives

- Explain the APQP & PPAP framework, including the key phases, deliverables & requirements for successful product and process development.
- Apply core APQP quality tools such as DFMEA, PFMEA, and Control Plans to identify, assess, and mitigate product and process risks.
- Evaluate measurement systems & process performance using MSA, SPC & Process Capability techniques to support effective decision-making.
- Utilise structured problem-solving methodologies including 8D to identify root causes, implement corrective actions, and prevent recurrence.
- Understand the linkages between APQP tools and how they work together to deliver robust quality planning, validation and C.I.

Training Content

Understanding the APQP Framework

- Overview of the delivery framework for APQP/PPAP
- Building blocks for success
- Identifying the APQP deliverables for each phase
- Product & Process validation & the PPAP process
- Making APQP work from a cultural point of view

APQP Toolkit: Design FMEA (DFMEA)

- How the essential APQP tools link together
- Introduction to DFMEA: strategies for reducing risk
- Examples & case study

APQP Toolkit: Process FMEA (PFMEA) & Control Plans

- Introduction to PFMEA
- Strategies for reducing design & process risk
- Constructing the control plan
- Case study, plus review of current examples & cultural norms for FMEA & control plans

APQP Toolkit: Measurement System Analysis

- Introduction to MSA for continuous and attribute data
- Case study, plus review of current examples & cultural norms for MSA

APQP Toolkit: Process Control & Capability

- Process control strategies, inc. Mistake Proofing & SPC
- Introduction to process capability for continuous and attribute data

APQP Toolkit: 8D Problem Solving

- Structured problem solving using 8D
- Case study, plus review of current examples & cultural norms for problem solving

Enablers & Barriers for Successful Deployment

- Identifying helping and hindering forces for the successful deployment of the core quality tools
- Links to Leader Standard Work