

Core Tools (APQP, PPAP, FMEA, MSA, SPC)

Training Overview:

This Core Tools course equips participants with the knowledge to apply APQP, PPAP, FMEA, MSA, and SPC to improve quality and prevent defects. Participants learn how to use these tools together to identify risks early, control processes, and ensure consistent product performance.

Through practical examples and real-world application, participants build capability to strengthen product development and manufacturing processes. The course emphasizes measurable impact, including reduced scrap and rework, improved quality, and lower overall costs.

Training Objectives:

- Understand the purpose and integration of APQP, PPAP, FMEA, MSA, and SPC
- Identify potential failure modes and risks using FMEA
- Apply APQP to plan and manage product quality
- Use PPAP to ensure supplier and production readiness
- Evaluate measurement systems using MSA
- Monitor and control processes using SPC
- Improve communication across quality, engineering, and operations
- Prevent defects through proactive planning and analysis
- Reduce variation and improve process stability
- Support consistent product quality and performance