

# 13006 Quality Control Methods

## Background

This one-day course provides an introduction to process control methods as outlined in 13006, supporting AS13100 requirements for managing and improving manufacturing process performance. The course explores foundational principles, key control techniques, and both statistical and non-statistical methods used to maintain stable and capable processes within the aerospace supply chain.

## Learning Objectives

By the end of this course, participants will be able to:

- Understand the importance of process control for product quality and operational stability.
- Apply core principles such as “on target with minimum variation” and closed-loop control.
- Identify appropriate statistical and non-statistical control methods, including error-proofing, SPC, and checklists.
- Interpret control charts for variable and attribute data.
- Evaluate process capability and apply the correct indices (e.g., Cp, Cpk, Pp, Ppk).
- Recognise how process control supports APQP/PPAP and continual improvement activities.

## Agenda

- Introduction to Process Control and 13006
- Key Principles: Variation, Stability & Control Loops
- Overview of Process Control Tools (9 Recognised Methods)
- Statistical Process Control (SPC) – Charts and Interpretation
- Attribute vs Variable Data Analysis
- Process Capability Indices and Use in Quality Planning
- Non-Statistical Methods – Visual Checks, First Piece Checks, Test Pieces
- Maturity Reviews, Pitfalls, and Common Challenges

## Additional Information

- Duration: 1 Day
- Format: Trainer-led (in-person or virtual)
- Audience: Quality professionals, engineers, team leaders, and those involved in production or process development
- Standards: RM13006, AS13100, AS9145