


**MINITAB REQUIRED**

SPC consulting group

# SPC AIAG & VDA

## STATISTICAL PROCESS CONTROL - 1ST EDITION, 2026

### Objective:

The participant will gain a detailed understanding of the new changes introduced in the AIAG & VDA 2026 Statistical Process Control Manual, as well as the knowledge required to support the effective implementation of SPC within organizations.

### Prerequisites

- Basic statistical concepts
- Interpretation of technical drawings
- Process flow diagram

### Duration:

16 hours

**General Information**

**Scope**
- General AIAG VDA approach

**Terms and Definitions**
- Table with general definitions of terms used in SPC implementation

**Proactive Prevention over Reactive Detection**
- Quality Assurance
- Quality Control

**Process Improvement and Control**
- PDCA
- Process characteristics
- Control loops

**Requirements for SPC Application**
- Quality Management System
- Requirements to be met
- Interpretation of design, measurement, and production tolerances

**OCAP – Out of Control Action Plan**
- Approach
- Example

**Roles and Competencies**
- Description of roles
- Qualification matrix
- Minimum competency requirements

**Difference Between Performance and Capability**
- P and C Indices
- Pn/Pmk, Pp/Ppk, Cp/Cpk
- Production process capability
- Outliers
- Summary table with target values

**Calculation of Capability Indices**
- Data distribution analysis
- General geometric method
- Normal distribution
- Box-Cox / Johnson transformations
- One-sided tolerance limits

**Machine Performance**
- Data distribution analysis
- Preliminary observation
- Preparation
- Machine performance scheme

**Distribution Models**

**Control Charts**

**Software Application**

**SPC Documentation**

**Traceability**