

Statistical Process Control (SPC)

INTRODUCTION

This course is designed to provide participants with an understanding of the principles of Statistical Process Control (SPC) and the tools and techniques. SPC does not refer to a particular technique, algorithm or procedure. SPC is an optimisation philosophy concerned with continuous process improvement, using a collection of (statistical) tools for data and process analysis making inferences about process behavior. SPC is a key component of Total Quality initiatives and ultimately SPC seeks to maximise profit by improving product quality, improving productivity, streamlining process, reducing wastage and reducing variation. SPC is considered one of the core tools of IATF 16949:2016, and is generally required to be used within the Product Realisation process and it is also a key element of the Control step within Six Sigma.

DURATION

1 Day, 09.00 – 16.00

WHO SHOULD ATTEND

This course is suitable for quality professionals, six sigma change agents, lean practitioners and support staff who require a basic understanding of Statistical Process Control tools and techniques and the potential benefits (supported by examples) of understanding process behavior.

- The course is highly practical and avoids the requirement for a detailed knowledge of statistics
- Managers, Team leaders, Engineers and technicians with responsibility for design, engineering, production and quality
- Senior and line management who are responsible for creating and/or implementing IATF 16949:2016 requirements

COURSE CONTENT

- Variable Control Charts Xbar-R charts and Xbar-s charts
- Moving average & moving range Charts
- Checking for trends and option for trend control chart
- Process Capability Cp, Cpk, Pp, and Ppk
- One-side specification limits
- Descriptive statistics
- Calculation of control limits based on data

IN – HOUSE COURSES

Offering better value for money, they can be customised and designed to match your individual specific requirements.

STYLE OF DELIVERY AND COURSE LEADERS

Our course leaders are business improvement specialists, qualified professionals and experienced six sigma master black belts. They have extensive knowledge across a wide range of business sectors including manufacturing, finance, pharmaceuticals, local and national government. They have all cut their teeth as successful change agents within high profile organisations, and fully understand the range of technical, legislative and people challenges that face those with a responsibility for delivering real quality improvements.

CERTIFICATION

All delegates will be awarded a certificate verifying attendance and completion of the course.

BOOKING AND COURSE FEES

NOTE - POA this course is only available on an In-house basis, please contact us on 0191 519 9191 or email iqmsenquiries@saiglobal.com for further information