

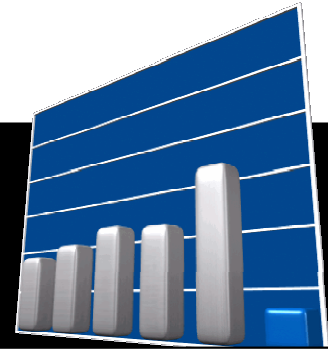
Brought to you by



www.qaiasia.com

Demystifying High Maturity - The Statistical Way

4 days Practitioners workshop



Need for Statistical Process Control

Measurement based software process improvement is a mandatory activity. Statistical Process Control (SPC) provides real time analysis to establish controllable processes and focus business on areas needing improvement, thus, process improvement models implicit direct usage of SPC as a crucial step for project level process control and organizational level process improvement purposes. SPC is the means of data analysis technique for CMMI level 4 and 5 organizations.

Workshop Takeaways:

- Solution to the real-world problem related to high maturity practices.
- Complete understanding of high maturity practices
- Hands on experience of using tools like MINITAB

Who should attend:

- Engineering process group (e.g., SEPG, EPG) members
- Project Managers and Team Leaders
- Professionals interested in applying high maturity concepts
- Metrics council members
- Appraisal team members

Workshop Description

This workshop provides details on what is high maturity and its characteristics. It provides detailed explanation of the concepts and practices at maturity levels 4-5 as well as examples of how statistical methods and tools can be applied to assist in the implementation of these practices.

The workshop provides hands on experience on hypothesis testing, Monte Carlo simulation, process-performance baselines, process-performance models, control charts, regression analysis and other statistical techniques.

The workshop is composed of lectures and exercises, it provide a practical hands-on experience to the participant, along with the concept knowledge and a level of tool usage (MINITAB & Crystal Ball) would also be provided. After attending the course, the participant will understand the concepts and issues related to CMMI levels 4 and 5 from theoretical, empirical, and practical perspectives.

Workshop Contents

- Introduction
- SEI's expectations from High Maturity Organizations
- Establishing a strong measurement framework (ML2)
- High level GQM
- Concept of $Y = f(x)$
- Introduction to SPC concepts
- Introduction to MINITAB
- Statistical Tools using MINITAB
- Control Charts
- Advanced statistical concepts (hypothesis testing, ANOVA, correlation etc)
- Developing Process Performance Baselines, Process Performance Models
- Interpreting High Maturity Process Areas
- High Maturity Practices Common Pitfalls
- Industry best practices