

<b>Course Name:</b>	Introduction to Quality Assurance for Software Development – Using CMMI as a Reference Model
<b>Duration:</b>	1 Day
<b>Medium of Instruction:</b>	Cantonese (with handout in English)
<b>Award of Certificate:</b>	Certificate of Attendance

### **Nature and Objectives:**

The objective of this introductory workshop is to provide participants with the basics of the software quality concept, understand the CMMI for software development and the key elements of the Software Quality Assurance.

Quality is one of the key elements for a successful software development project. This workshop provides an elementary introduction to software quality assurance and the fundamental knowledge you need to establish a practical software quality assurance function in your organization using CMMI as the reference model.

CMMI is a process improvement scheme that provides organizations with the essential elements of effective processes that ultimately improve their performance. CMMI can be used to guide process improvement across a project, a division, or an entire organization.

The workshop will cover the fundamental of software quality concepts, based on the CMMI framework for establishing the Software Quality Management System and key elements for software quality assurance such as Project Management, Project Management and Control, Verification and Validation.

### **Who Should Attend:**

Project Managers, Software Quality Managers, Anyone involved in software development, Software Quality Analysts

### **Course Outline:**

- Introduction to Quality Concept including quality gap, cost of quality, quality assurance and quality control and the different between quality assurance and quality control.
- Common Software Development Life Cycle (Waterfall),
- Overview of the CMMI Framework,
- Basic concept of Process Management such as the definition of process and the common software development processes.
- Discussion of the process areas related to
  - Software Quality Assurance - organizational level and project level
  - Software Quality Control – Technique for verification and validation.