

PEPIT Training for Senior Managers

ESI Training Services:
Awareness Tutorials

PEPIT stands for **Professional Engineering Process Improvement Training**. This training is available on the internet with continuous support for software engineers to improve their own skills in the areas of estimating, planning and tracking their work.

PEPIT training is relevant to practising software engineers, who are developing applications and systems across all industrial sectors. Based on the Personal Software Processsm and PSP^{sm1}, PEPIT teaches the engineers how to practice high maturity processes at an individual level, practices that are compatible with the Capability Maturity Model^{®2} and CMM[®] and other assessment methodologies.

PEPIT works very successfully in an organisation but only with full support from senior managers and team leaders who are responsible for the teams of software engineers developing their products. This half-day tutorial gives a top level overview of PEPIT and demonstrates the potential benefits of implementing PEPIT in clear business terms. The tutorial also emphasizes the pro-active role of senior managers needed to lead this type of activity to a successful capability level and addresses such issues as:

- The importance of conducting Software Process Improvement (SPI) within the organisation's business context
- PSP concepts and benefits – how they can improve the software development process
- PEPIT concepts, benefits and the tool
- The difference between PSP and PEPIT
- How to scale up PEPIT to team level and organizational level

About PSPsm

As the size and the complexity of software systems increase, the practices of the individual software professional become progressively more important.

The Personal Software Process (PSPsm) is a scaled-down version of industrial software process that is suitable for individual use, and particularly suitable to the needs of small to medium-sized enterprises (SMEs). It includes many of the practices described in the Capability Maturity Model. PSP methods are based on engineering, quality management, and scientific disciplines made practical for application at the personal process level.

The goal of the PSP is to make software engineers aware of the processes they use to do their work and the performance of those processes. Software engineers set personal goals, define the methods to be used, measure their work, analyse the results, and adjust their methods to meet their goals.

It is a strategy for professional self-development and enhanced productivity.

Data gathered on software engineers who practice the PSP method consistently show:

- Improved size and time estimating accuracy
- Lower defect densities
- Dramatic reductions in defects in compile and test
- No loss of productivity

Information & Registration

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¹Personal Software Processsm and PSPsm are service marks of Carnegie Mellon University.

²®Capability Maturity Model and CMM are registered in the U.S. Patent and Trademark Office.

Training

PEPIT Training for Software Engineers

PEPIT training is relevant to practising software engineers, who develop applications and systems across all industrial sectors. Based on a process framework, the training introduces methods and techniques that help to improve the accuracy of estimations, plans and schedules, and hence increase the predictability of project cycle times. The training uses the internet as the main medium of interactive communication between the student, the course instructor (an expert in PSPSM), subject matter experts and other students following the same course. PEPIT covers the content of what is normally a two-week classroom based intensive course. The course can mainly be followed off-line, since the content is delivered to the student on a CD-ROM, along with the textbook "A Discipline for Software Engineering" by W.S.Humphrey.

PEPIT is available in English and Spanish.

“A new method for training your team of software developers in the software engineering discipline developed by Watts Humphreys”

“A cost saving approach to improving the estimation, planning and tracking skills of individual software development engineers leading to quality driven software products”