



## Managing TSP Teams

### *COURSE DESCRIPTION*

This three-day course for first-line managers or team leaders of Team Software Process<sup>SM</sup> (TSP<sup>SM</sup>) software development teams covers the key concepts and principles of the TSP and the Personal Software Process<sup>SM</sup> (PSP<sup>SM</sup>). The purpose of the course is to provide managers and team leaders with the knowledge and skills they need to effectively lead and coach TSP development teams.

Organizations that develop software recognize that controlling their software process significantly affects their ability to be successful in business. However, organizations still struggle when trying to apply disciplined methods in the software process. Historically, this struggle has been due to a lack of operational procedures that teams and individuals can use to develop software in a disciplined fashion.

The TSP was designed to provide both a strategy and a set of operational procedures using disciplined software process methods at the individual and team levels. At the individual level, the PSP shows managers and engineers how and why to plan and track their projects, demonstrates the principles and benefits of effective quality management, and involves the engineers in process measurement, management, and improvement. At the team level, the TSP builds accurate, achievable plans for software projects teams, provides a formal team-building process, and provides the mechanism for tracking progress against project plans.

### *AUDIENCE*

First-level software managers who directly manage software development, such as

- software project managers
- software team leaders
- supervisors

### *PREREQUISITES*

There are no prerequisites for this course.



### TOPICS

- a strategic perspective of software development, its problems, and possible solutions to those problems
- an overview of the PSP and how it provides a means for introducing sound engineering practices into software engineering work
- an overview of the TSP and how it works to build self-directed high-performance teams
- rational management (managing with facts and data) and why this type of management is required to maintain successful TSP teams
- quality during software development, how TSP teams measure and manage development quality, and produce quality products
- introducing TSP into an organization
- the TSP launch process, how the team builds their work plan and negotiates their commitment with management
- the TSP team working process
- elements of a disciplined process, the PSP initial process
- disciplined planning at the individual level, the PSP planning process
- understanding process data at the individual level, coaching an engineer based on process data
- team management in a TSP team, the role of the team leader
- understanding process data at the team level, coaching the team based on process data

### OBJECTIVES

Successful completion of this course enables participants to

- describe the basic concepts on which the TSP is built
- describe how the TSP can effectively improve software development activities and provide positive motivation for engineers and project teams
- provide a working-level understanding of how individuals and teams apply the TSP
- show key behaviours to successfully leading and coaching TSP teams