Software.Process.Management
software processes that fit your business needs

Practical Test Management with Effective Tool Support

Training Description

Overview

This training shows how test management can optimally design the various processes in the context of testing, and how effective tool support for testing is established. Focus areas are early and systematic test planning, monitoring of testing progress, and close interaction between development and testing. Case studies from industrial practice illustrate how test management can effectively shape its important role in IT and software organizations.

Target Groups

Quality Management, Test Management, Product Owners, Project Management

Level

Entry & Advanced

Contents

- Contributions of testing to IT and business value
- Testing and test management during the development cycle
- Developing a comprehensive test strategy
- Building a test organization
- Planning, preparation and execution of testing
- Designing defect management
- Controlling testing progress and success
- Selecting and establishing test tools
- Requirements-based testing
- Risk-oriented testing
- Testing in agile development
- Adapting testing to different context situations
- Establishing and optimizing test management

Duration

2 Days

Maximum Number of Participants

12 Persons

Summary

Effective test management is an important prerequisite for ensuring software quality and for keeping projects within time and budget. IT and software organizatinos must design suitable test processes and connect them well with the other activities software development. They must make project staff competent testers and establish effective tool support. It is important for the success of software development that the processes of development and testing work together smoothly and are supported well by appropriate tools.

In order to establish effective test management, test managers, quality managers, and project managers must deal in particular with the following questions:

- What are the contributions of testing for the success of software development?
- What are the prerequisites and main practices for successful test management?
- How can test management be adapted to different software development contexts? (e.g., project size, software type, agile development, and subcontrated development)
- How can an effective tool infrastructure for testing be designed?
- How can quality management achieve sustained improvements of testing and the entire development processes?

This training shows how testmanagement can optimally design the various processes in the context of testing, and how effective tool support for testing is established. It presents approaches to designing test organization and test strategy, as well as the anatomy of a tool infrastructure for testing. The training also explains advanced testing practices such as requirements-based testing, risk-oriented testing, and testing in distributed software development. Focus areas are early and systematic test planning, monitoring of testing progress, and close interaction between development and testing.

Case studies from industrial practice illustrate how test management can effectively shape its important role in IT and software organizations. Participants learn how they can establish modern testing practices throughout the enterprise, and how they can support processes efficiently by a well-designed tool environment.

Trainer CVs

Dr. **Andreas Birk** is founder and principal consultant of Software.Process.Management. He helps organizations to optimally align their software processes with their business goals. His focus areas are requirements, test management, and software process improvement.

In more than fifteen years in the software industry, Andreas Birk has built a profound understanding how software and IT contribute to sustained business success. He publishes in renowned IT journals and speaks regularly at international conferences.

Gerald Heller is a software process consultant with more than 20 years experience in global software product development. In this context, he has defined and implemented a broad range of development methods with a focus on requirements and test management for iterative incremental development. He has extensive experience in establishing software development processes with integrated support of application lifecycle tools.

Gerald Heller publishes in software engineering magazines and speaks regularly at international conferences.