



Let's Reach For Excellence!

TAN DUC INFORMATION TECHNOLOGY SCHOOL JSC

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Applied Software Project Management

Duration: 05 days

This course provide you with tools, techniques, and practices that you can use on your own projects right away. This book supplies you with the information you need to diagnose your team's situation and presents practical advice to help you achieve your goal of building better software.

Topics include:

- Planning a software project
 - Helping a team estimate its workload
 - Building a schedule
 - Gathering software requirements and creating use cases
 - Improving programming with refactoring, unit testing, and version control
 - Managing an outsourced project
 - Testing software
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COURSE OUTLINE

Chapter 1 Introduction

- Tell Everyone the Truth All the Time
- Trust Your Team
- Review Everything, Test Everything
- All Software Engineers Are Created Equal
- Doing the Project Right Is Most Efficient

Part I: Tools and Techniques

Part II: Using Project Management Effectively

- Tools and Techniques

Chapter 2 Software Project Planning

- Understand the Project Needs
- Create the Project Plan
- Diagnosing Project Planning Problems

Chapter 3 Estimation

- Elements of a Successful Estimate
- Wideband Delphi Estimation
- Other Estimation Techniques
- Diagnosing Estimation Problems

Chapter 4 Project Schedules

- Building the Project Schedule
- Managing Multiple Projects
- Use the Schedule to Manage Commitments
- Diagnosing Scheduling Problems

Chapter 5 Reviews

- Inspections
- Deskchecks
- Walkthroughs
- Code Reviews
- Pair Programming
- Use Inspections to Manage Commitments
- Diagnosing Review Problems

Chapter 6 Software Requirements

- Requirements Elicitation
- Use Cases
- Software Requirements Specification

- Change Control
- Introduce Software Requirements Carefully
- Diagnosing Software Requirements Problems

Chapter 7 Design and Programming

- Review the Design
- Version Control with Subversion
- Refactoring
- Unit Testing
- Use Automation
- Be Careful with Existing Projects
- Diagnosing Design and Programming Problems

Chapter 8 Software Testing

- Test Plans and Test Cases
- Test Execution
- Defect Tracking and Triage
- Test Environment and Performance Testing
- Smoke Tests
- Test Automation
- Postmortem Reports
- Using Software Testing Effectively
- Diagnosing Software Testing Problems
- Using Project Management Effectively

Chapter 9 Understanding Change

- Why Change Fails
- How to Make Change Succeed
- Chapter 10 Management and Leadership
- Take Responsibility
- Do Everything Out in the Open
- Manage the Organization
- Manage Your Team

Chapter 11 Managing an Outsourced Project

- Prevent Major Sources of Project Failure
- Management Issues in Outsourced Projects
- Collaborate with the Vendor

Chapter 12 Process Improvement

- Life Without a Software Process
- Software Process Improvement
- Moving Forward
- Appendix A Bibliography