

Software Testing and Software Project Management

Lesson 0 – General information

Uwe Gühl
Winter 2015 / 2016



Contents



- Administrative
- Contents of the course
- Resources
- General Idea
- Grading

Administrative



- 219343: Software Testing and Software Project Management
- Lecturer
 - Uwe Gühl, Email: uweguehl@hotmail.com
Department of Computer Engineering
Faculty of Engineering
Kasetsart University, Bangkok 10900, Thailand
- Lecture documentation:
 - <https://mike.cpe.ku.ac.th/~uwe>
- Office hours on demand
 - Room 707, 7th floor,
Department of Computer Engineering building

Contents of the course



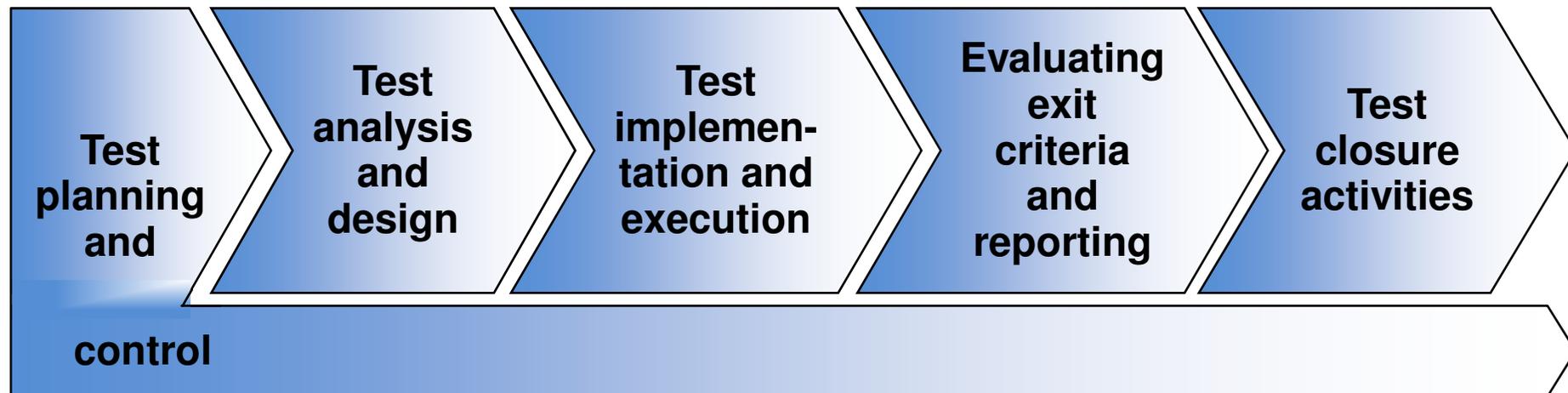
I. Software Testing

- Basic Test Process
- Testing in Software Life Cycles
- Static Testing
- Dynamic Testing
- Test Management
- Tool support for testing

Contents of the course



I. Software Testing



Contents of the course



I. Software Testing

... based on ISTQB, founded 2002 as international association by 8 national boards, responsible for „ISTQB® Certified Tester“

- 2013 there were 47 Boards in 70 countries
- about 320.000 ISTQB® Certified Tester – Foundation Level
- About 12.000 passed exams every quarter

Contents of the course



I. Software Testing ISTQB® Vision“

“To continually improve and advance the software testing profession by: Defining and maintaining a Body of Knowledge which allows testers to be certified based on best practices, connecting the international software testing community and encouraging research.”

Contents of the course



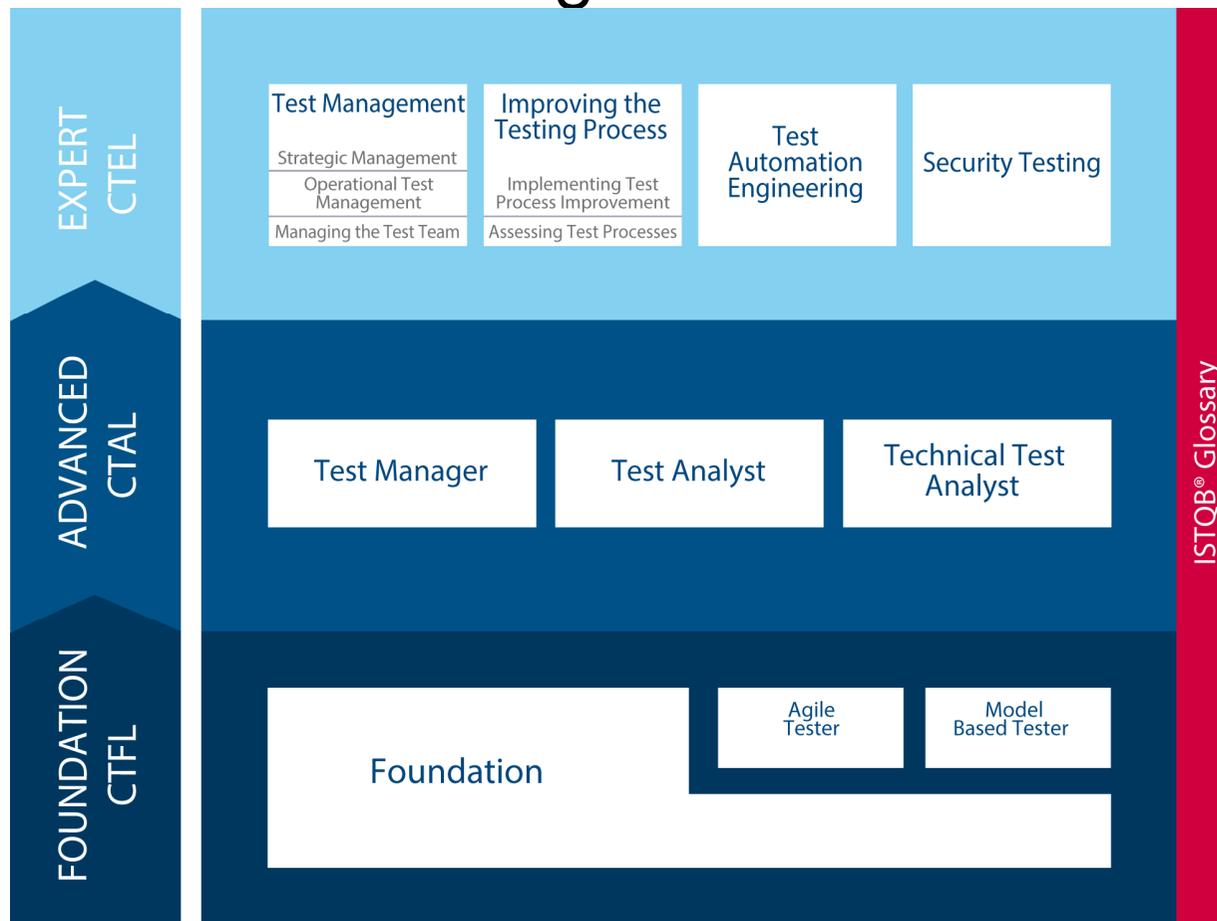
I. Software Testing ISTQB® Vision“

“To continually improve and advance the software testing profession by: Defining and maintaining a Body of Knowledge which allows testers to be certified based on best practices, connecting the international software testing community and encouraging research.”



Contents of the course

I. Software Testing



Contents of the course



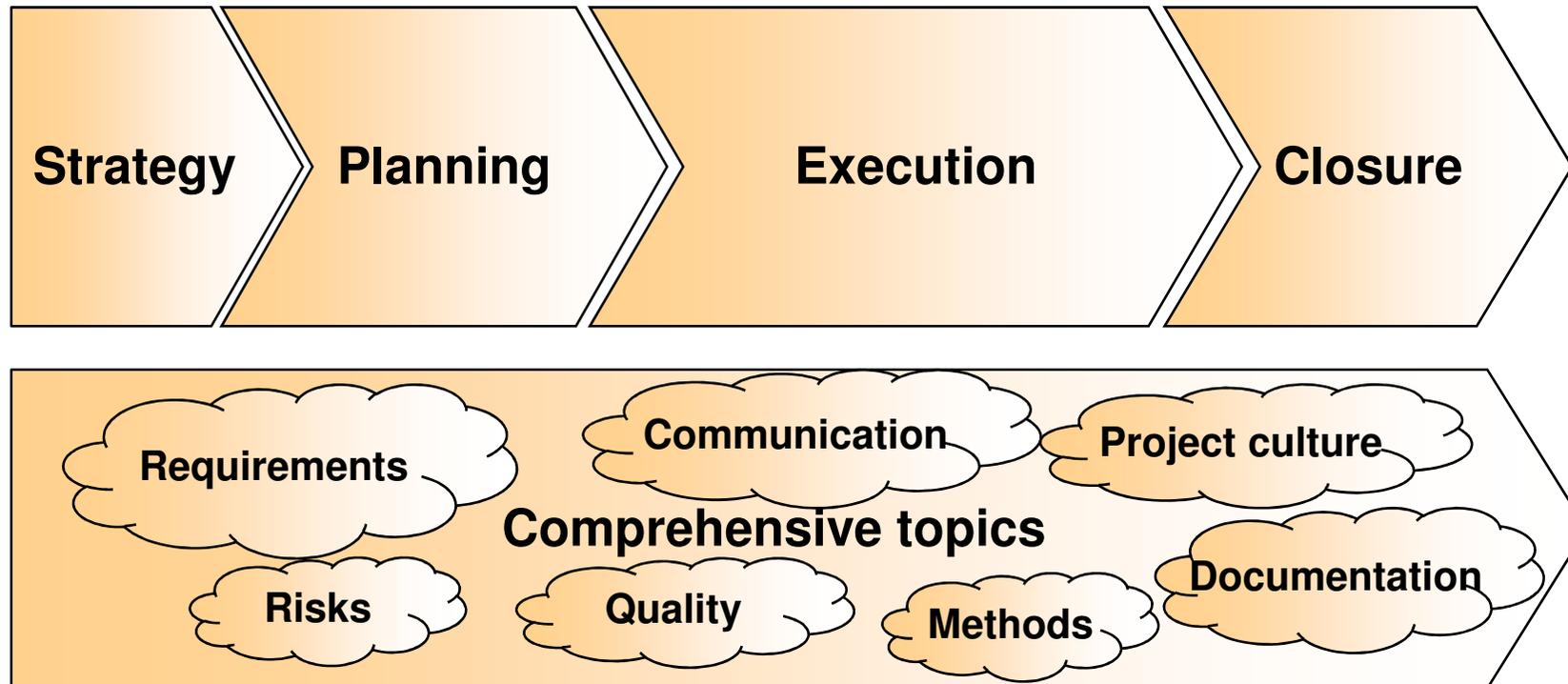
II. Software Project Management

- Project stages
 - Strategy
 - Planning
 - Execution
 - Closure
- Comprehensive topics
 - Requirements
 - Project culture
 - Communication
 - Documentation
 - Quality
 - Risk management
 - Methods



Contents of the course

II. Software Project Management



Resources



I. Software Testing

- International Software Testing Qualifications Board (ISTQB): Certified Tester Foundation Level Syllabus Version 2011, <http://www.istqb.org>
 - International Software Testing Qualifications Board (ISTQB): Standard Glossary of Terms Used in Software Testing, Version 3.01, March 26th, 2015, <http://www.istqb.org/downloads/glossary.html>
 - Open source software testing tools, <http://www.opensourcetesting.org>
 - Andreas Spillner, Tilo Linz, Hans Schaefer: Software Testing Foundations: A Study Guide for the Certified Tester Exam, 3rd Edition, 2011
- ... more:
- Cem Kaner, Jack Falk, Hung Quoc Nguyen: Testing Computer Software, Wiley Computer Publishing, 1999
 - Cem Kaner, James Bach, Bret Pettichord: Lessons Learned in Software Testing, Wiley Computer Publishing, 2002

Resources



II. Software Project Management

- Daud Alam, Uwe Gühl: Projektmanagement für die Praxis, Springer, 2016, (German)



- Pankaj Jalote: Software Project Management in Practice, Addison-Wesley, 2002
- Association for project management (apm): Glossary, 2016, <https://www.apm.org.uk/glossary>

General idea



I. Software Testing

- Preparation and presentation of specific test topics by students
 - Support pair working

II. Software Project Management

- Exercises based on student projects

Grading



- Calculation of score:
 - Presentation of test topic in pairs 40%
One score will be given to each pair member
 - Midterm examination 30%
 - Final examination at the end of the course 30%