

# Software Testing and Software Project Management

Lesson 0 – General information

Uwe Gühl  
Winter 2015 / 2016





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# Administrative



- 219343: Software Testing and Software Project Management
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  - Room 707, 7th floor,  
Department of Computer Engineering building



# Contents of the course

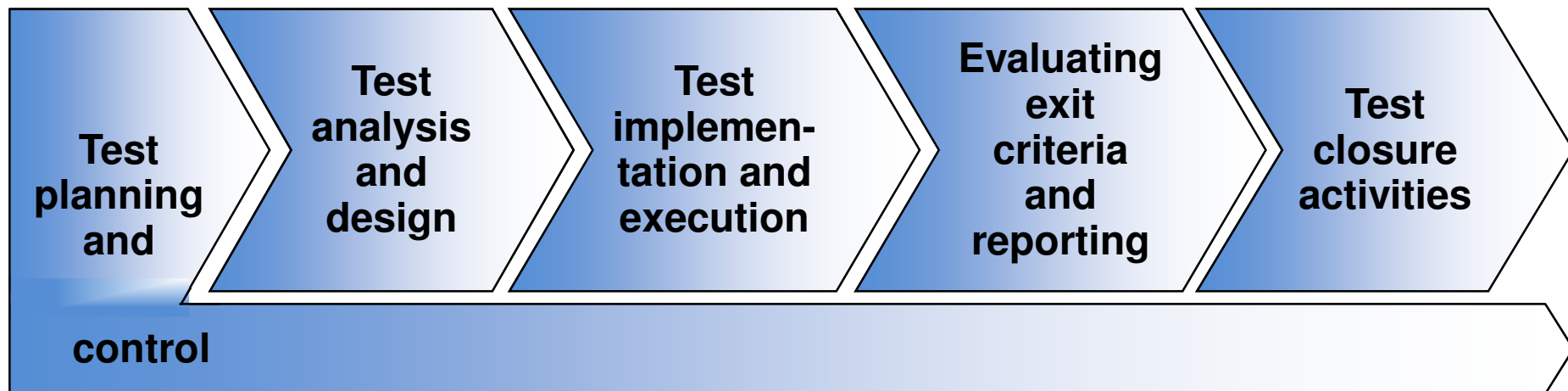
## I. Software Testing

- 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“

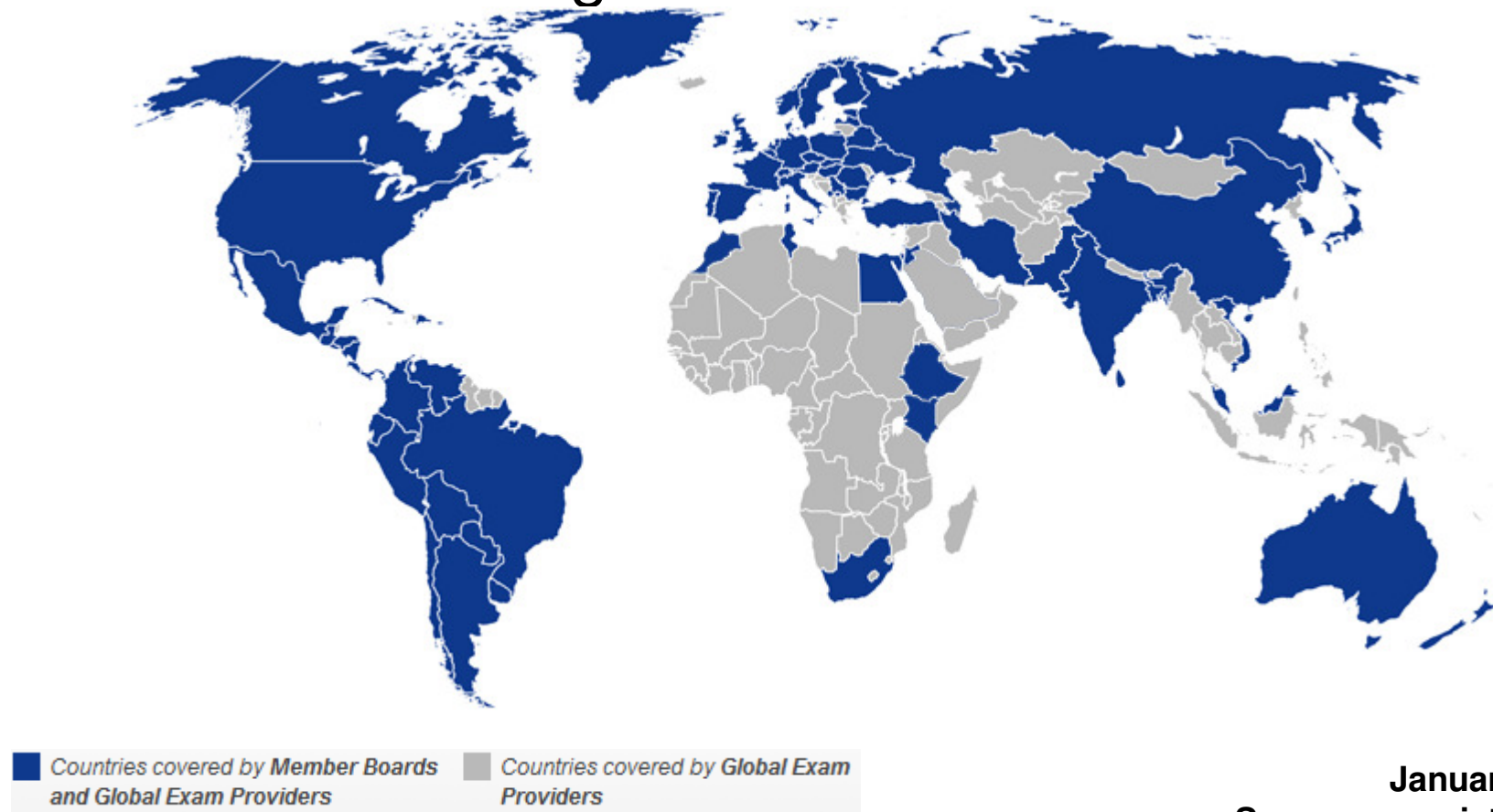
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# Contents of the course

## I. Software Testing

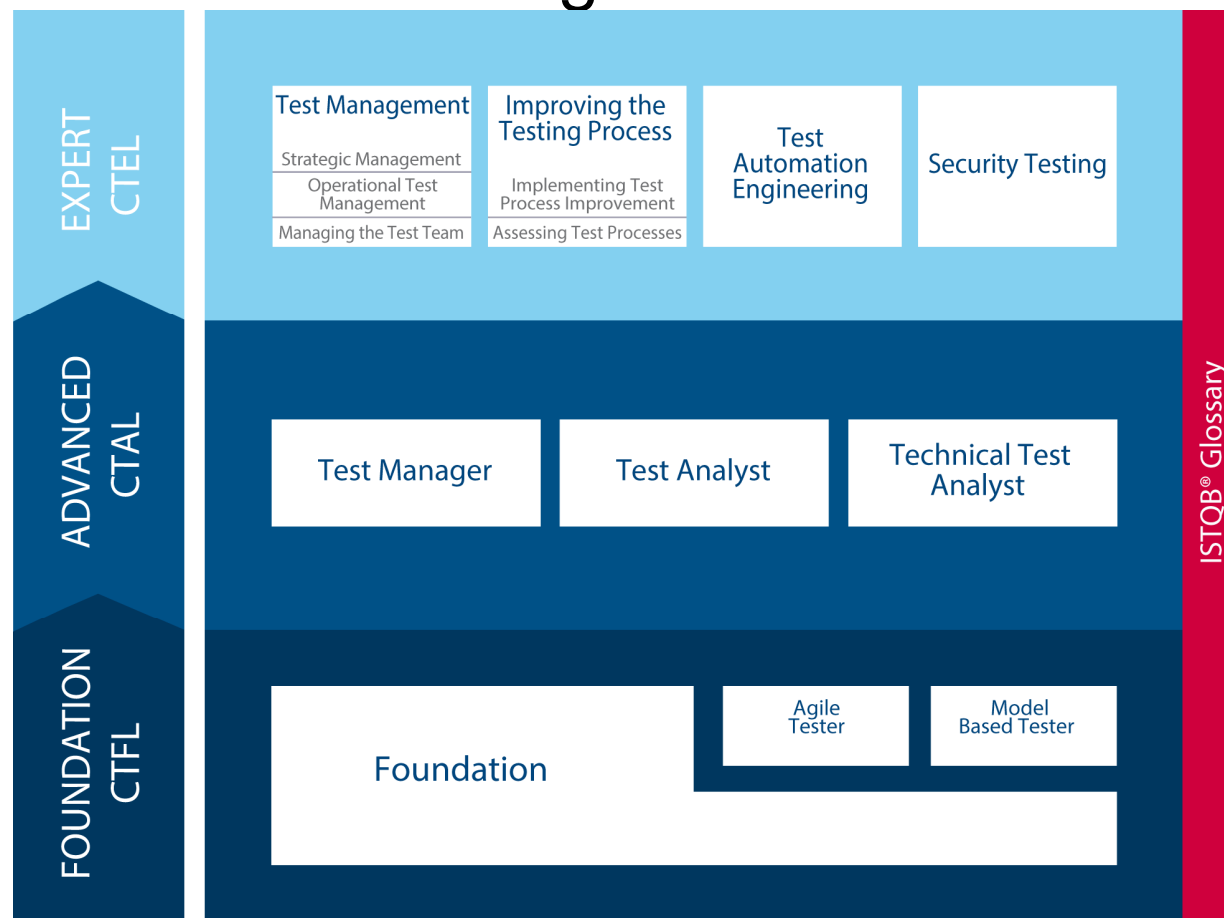


**January 2015**  
**Source: [www.istqgb.org](http://www.istqgb.org)**



# Contents of the course

## I. Software Testing





# Contents of the course

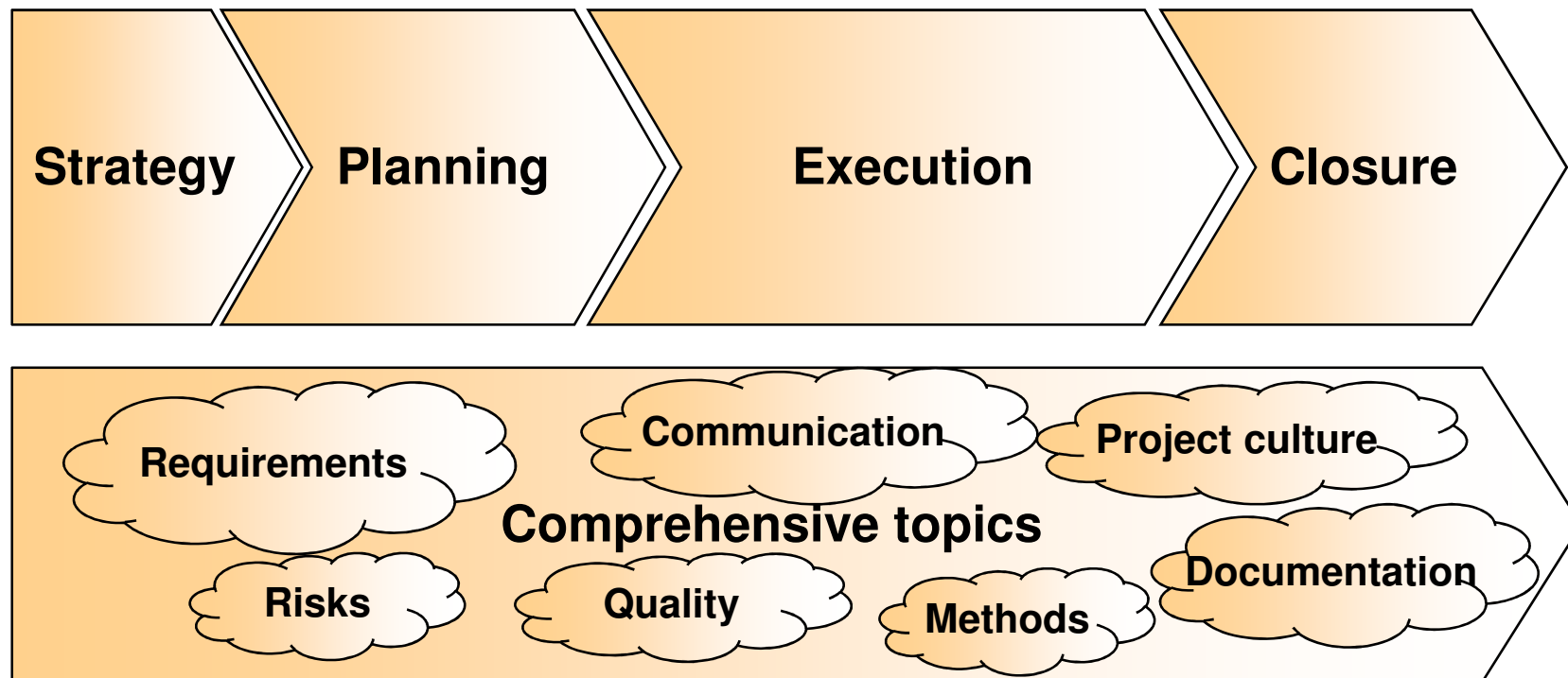
## II. Software Project Management

- 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%