ISTQB® Certified-Tester

Implementation of the Syllabus in Universities in Germany

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TU Berlin/Fraunhofer FOKUS
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Important to Notice

German Testing Board

- I am representing mainly facts, but also selected evaluations. The later are mainly my private opinion and do not necessarily represent the GTB opinion.

- When referring to universities and students, I refer to all educational institutions and students thereof in non-commercial settings doing trainings towards BSc, MSc, and other professional grades.

Contents

German Testing Board

- German Testing Board e.V.
- ISTQB® Certified Tester – Syllabi and certified training
- GTB University and Student Support
- Software Testing Market in Germany
- Lessons Learnt and Future Targets

German Testing Board e.V.* (GTB e.V.)

German Testing Board

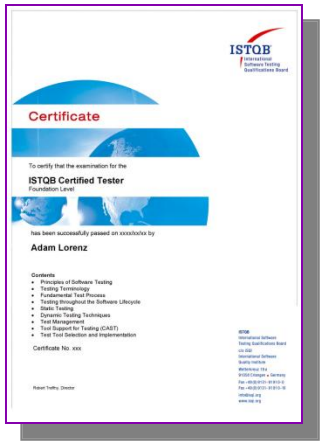
- Founding member of the International Software Testing Qualifications Board ISTQB®
- Registered association with own regulations
- Independent, national body in the area of software and system test
- Development of the valid syllabus and exam questions for the ISTQB® Certified Tester scheme
- Accreditation of training providers according to the ISTQB® Accreditation Standard
- Non-profit organization

*Note: e.V. is the German designation for a legally registered association

ISTQB® Certified Tester – principal attributes

German Testing Board

- World-wide standard for the training and further education of software testers
- Multi-stage syllabus
- Independent examination authority
- Internationally recognized certificate



ISTQB® - The path to an international standard

German Testing Board

1998	ISEB (Information Systems Examinations Board, part of the British Computer Society) develops the **Certified Tester Syllabus.** The first Software Testers are certified in 1998.
2001	The **German Testing Board** is founded. It develops the German language Certified Tester syllabus according to the ISEB ideal and also takes German standards (e.g. DIN) into account.
2002	First certifications **„ASQF®-Certified-Tester (AD V1.0)“** (Arbeitskreis Software-Qualität und -Fortbildung e.V.= Working Group for Software Quality and Training) in German-speaking countries.
	The **ISTQB®** (International Software Testing Qualifications Board), the Swiss Testing Board and the Austrian Testing Board are founded.
2003	The syllabus for the „Advanced Level“ is completed.
2004	First exams for **„ISTQB® Certified-Tester Advanced Level“**
	The number of national Testing Boards climbs to a total of 14.
2006	The „Expert Level“ syllabus is pre-determined.
2007	CTFL and CTAL syllabi updates. The number of national Testing Boards climbs further to 36.
2010	**Expert Level** “Improving the Test Process” completed. 46 national Testing Boards established.
Today	**More than 145.000 Certified Testers across the world and more than 17.000 German-language exams authorized by the GTB!** (Date 10/2010)

- Structure
  - Umbrella organization for all national Testing Boards
  - Working parties for the cooperative creation of syllabi, exam questions, processes etc.
- Tasks
  - Creation and updating of learning content and syllabi
  - Creation and unification of exam questions
  - Establishment of procedures and processes
- Independent, high-level body
- Non-profit organization

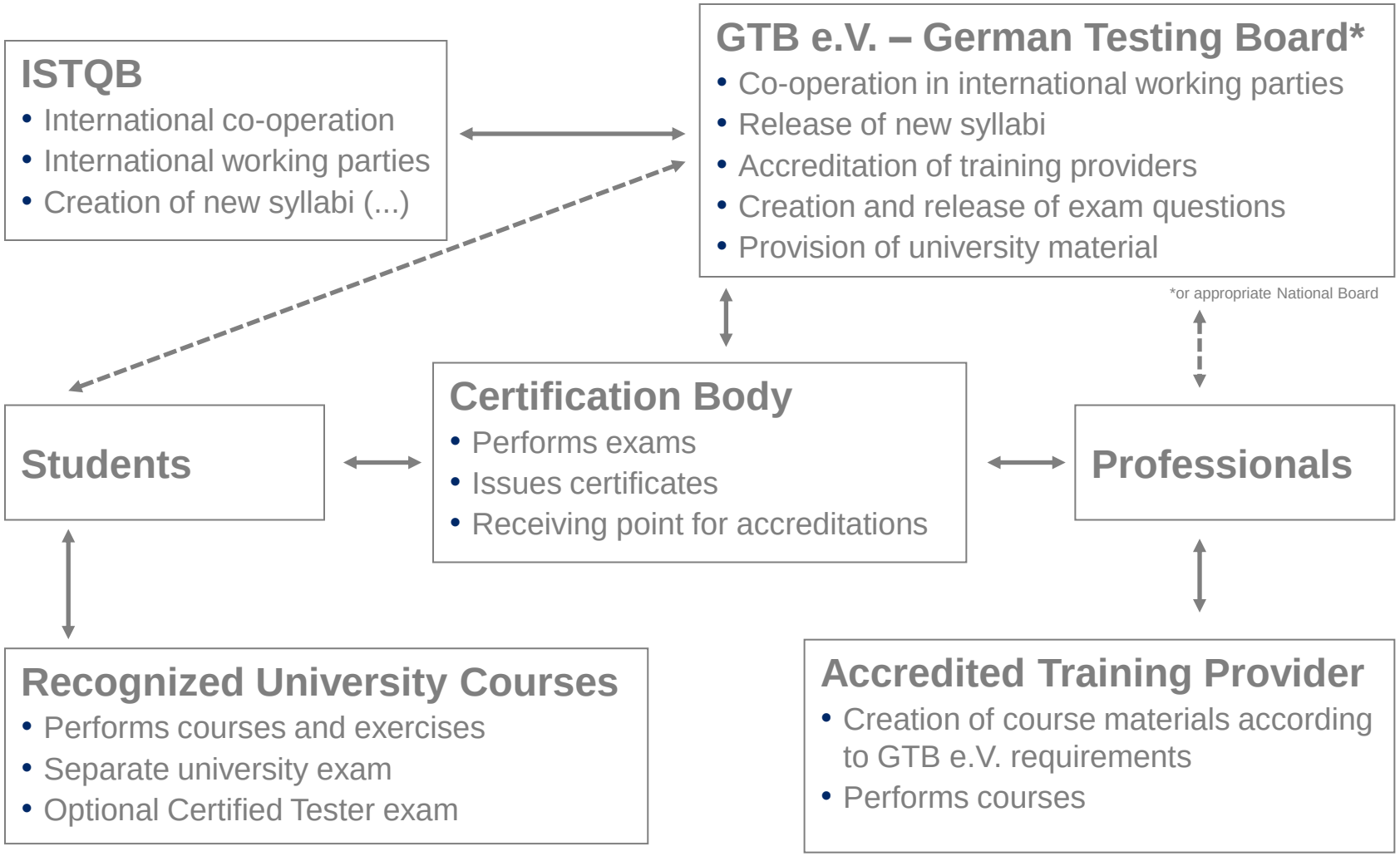
ISTQB® - Tasks of the National Boards

German Testing Board

- Creation of learning content and syllabi in the national language
- Accreditation of training providers
- **In Germany: authorization of university courses**
- Creation of exam questions in the national language
- Authorization of Examination Bodies (Certification Bodies)
- Implementation of procedures and processes

ISTQB® - Organization Certified Tester

German Testing Board



➲ 3-stage education program

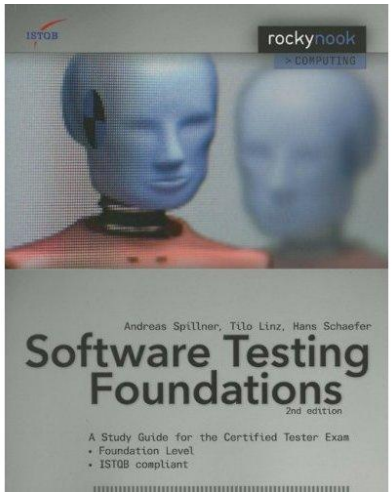
- Expert knowledge
  - Expert Level
- Practical subject knowledge
  - Advanced Level

For selected student education only

- Fundamentals
  - Foundation Level

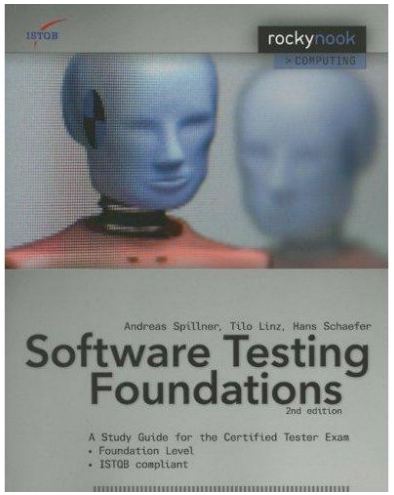
For student education and certification

- Recommended preconditions
  - Development knowledge
- Contents
  - Software testing fundamentals
  - Testing throughout the software life-cycle
  - Static testing techniques
  - Test design techniques
  - Test management
  - Tool support for testing
- Duration
  - Appr. 3 days
- Objectives
  - Teaching the fundamentals and basic knowledge in the field of software testing



Recommended book. This does not replace the syllabus and its contents are non-binding for exam questions.

- Recommended preconditions
  - Software engineering courses
- Contents
  - Software testing fundamentals
  - Testing throughout the software life-cycle
  - Static testing techniques
  - Test design techniques
  - Test management
  - Tool support for testing
- **Student course**
  - **1 term**
  - **Incl. exercises**
- Objectives
  - Teaching the fundamentals and basic knowledge in the field of software testing



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ISTQB® Syllabus - Foundation Level (2010)

German Testing Board

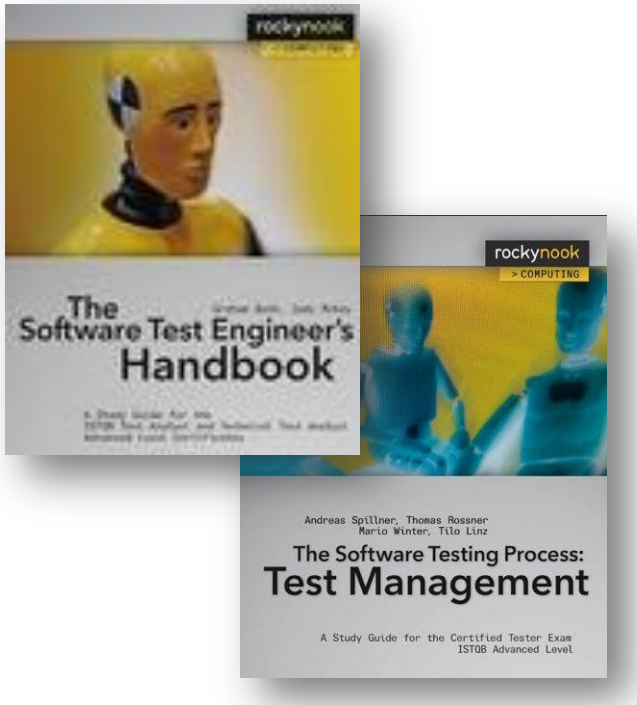
Fundamentals of Testing	Testing Throughout the Software Life Cycle	Static Techniques	Test Design Techniques	Test Management	Tool Support for Testing
Why is Testing Necessary	Software development models	Static Techniques and the Test Process	The Test Development Process	Test Organization	Types of Test Tools
What is Testing	Test Levels	Review Process	Categories of Test Design Techniques	Test Planning and Estimation	Effective Use of Tools
Seven Testing Principles	Test Types	Static Analysis by Tools	Specification-based Techniques	Test Progress Monitoring and Control	Introducing a Tool into an Organization
Fundamental Test Process	Maintenance Testing		Structure-based Techniques	Configuration Management	
The Psychology of Testing			Experience-based Techniques	Risk and Testing	
Code of Ethics			Choosing Test Techniques	Incident Management	

K1 K2 K3 K4

ISTQB® Syllabus - Advanced Level

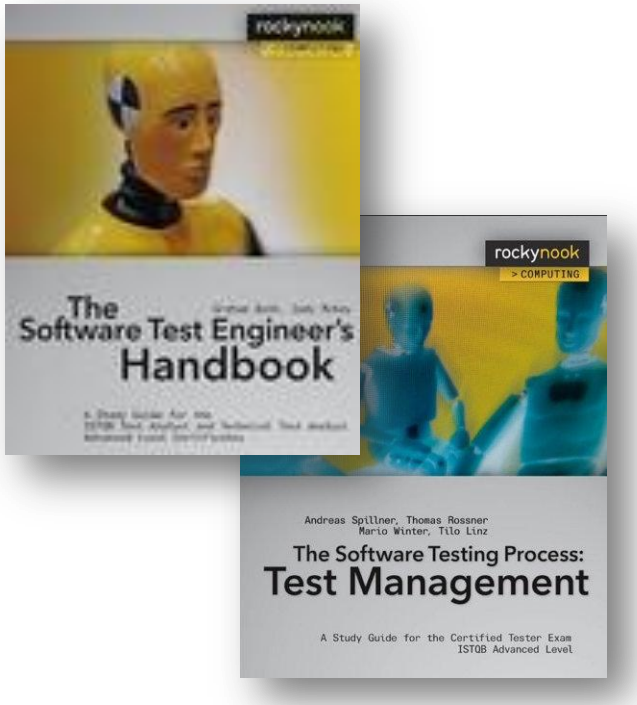
German Testing Board

- Preconditions
  - At least 18 months practical experience
  - Foundations Certificate
- Contents
  - Test process
  - Test management
  - Risk-based testing
  - Test techniques
  - Reviews
  - Incident management
  - Test process optimization
  - Test tools
  - Team organization
- Duration
  - Appr. 10-12 days
- Objectives
  - Teaching practical testing knowledge



Recommended books. These do not replace the syllabus and its contents are non-binding for exam questions.

- Preconditions
  - Foundation-level course
  - Higher-level courses on software engineering recommended
- Contents
  - Test process
  - Test management
  - Risk-based testing
  - Test techniques
  - Reviews
  - Incident management
  - Test process optimization
  - Test tools
  - Team organization
- **Student courses**
  - **Varying, depending on course context**
- Objectives
  - Teaching practical testing knowledge



Recommended books. These do not replace the syllabus and its contents are non-binding for exam questions.

ISTQB® Syllabus – Advanced Level (2007)

German Testing Board

Basic Aspects of Software Testing	Testing Processes	Test Management	Test Techniques	Testing of Software Characteristics	Standards & Test Improvement Process
Testing in the Software Lifecycle	Test Process Models	Test Management Documentation	Specification-Based	Quality Attributes for Domain Testing	Standards Considerations
Specific Systems	Test Planning and Control	Test Plan Documen-tation Templates	Structure-Based	Quality Attributes for Technical Testing	Improving the Test Process
Metrics and Measurements	Test Analysis and Design	Test Estimation	Defect- and Experience-Based		TMM
Ethics	Test Implementation and Execution	Scheduling Test Planning	Static Analysis		TPI
	Evaluating Exit Criteria and Reporting	Test Progress Moni-toring and Control	Dynamic Analysis		CTP
	Test Closure Activities	Business Value of Testing			STEP
People Skills and Team Composition	Test Tool and Automation	Distributed, Outs. and Ins.Testing	Reviews	Inciedent Management	CMMI
Individual Skills	Test Tool Concepts	Risk-Based Testing	The Principles of Reviews	When can a Defect be detected	
Test Team Dynamics	Test Tool Categories	Failure Mode and Effect Analysis	Types of Reviews	Defect Lifecycle	
Fitting Testing Within an Organization		Test Management Issues	Introducing Reviews	Defect Fields	
Motivation			Success Factors for Reviews	Metrics and Incident Management	
Communication				Communicating Incidents	

ISTQB® Syllabus – AL – Test Manager (2007)

German Testing Board

Basic Aspects of Software Testing	Testing Processes	Test Management	Test Techniques	Testing of Software Characteristics	Standards & Test Improvement Process
Testing in the Software Lifecycle	Test Process Models	Test Management Documentation	Specification-Based	Quality Attributes for Domain Testing	Standards Considerations
Specific Systems	Test Planning and Control	Test Plan Documen-tation Templates	Structure-Based	Quality Attributes for Technical Testing	Improving the Test Process
Metrics and Measurements	Test Analysis and Design	Test Estimation	Defect- and Experience-Based		TMM
Ethics	Test Implementation and Execution	Scheduling Test Planning	Static Analysis		TPI
	Evaluating Exit Criteria and Reporting	Test Progress Moni-toring and Control	Dynamic Analysis		CTP
	Test Closure Activities	Business Value of Testing			STEP
People Skills and Team Composition	Test Tool and Automation	Distributed, Outs. and Ins.Testing	Reviews	Inciedent Management	CMMI
Individual Skills	Test Tool Concepts	Risk-Based Testing	The Principles of Reviews	When can a Defect be detected	
Test Team Dynamics	Test Tool Categories	Failure Mode and Effect Analysis	Types of Reviews	Defect Lifecycle	
Fitting Testing Within an Organization		Test Management Issues	Introducing Reviews	Defect Fields	
Motivation			Success Factors for Reviews	Metrics and Incident Management	
Communication				Communicating Incidents	

ISTQB® Syllabus – AL – Test Analyst (2007)

German Testing Board

Basic Aspects of Software Testing

- Testing in the Software Lifecycle
- Specific Systems
- Metrics and Measurements
- Ethics

People Skills and Team Composition

- Individual Skills
- Test Team Dynamics
- Fitting Testing Within an Organization
- Motivation
- Communication

Testing Processes

- Test Process Models
- Test Planning and Control
- Test Analysis and Design
- Test Implementation and Execution
- Evaluating Exit Criteria and Reporting
- Test Closure Activities

Test Tool and Automation

- Test Tool Concepts
- Test Tool Categories

Test Management

- Test Management Documentation
- Test Plan Documentation Templates
- Test Estimation
- Scheduling Test Planning
- Test Progress Monitoring and Control
- Business Value of Testing
- Distributed, Outs. and Ins.Testing
- Risk-Based Testing
- Failure Mode and Effect Analysis
- Test Management Issues

Test Techniques

- Specification-Based
- Structure-Based
- Defect- and Experience-Based
- Static Analysis
- Dynamic Analysis

Reviews

- The Principles of Reviews
- Types of Reviews
- Introducing Reviews
- Success Factors for Reviews

Testing of Software Characteristics

- Quality Attributes for Domain Testing
- Quality Attributes for Technical Testing

Inciedent Management

- When can a Defect be detected
- Defect Lifecycle
- Defect Fields
- Metrics and Incident Management
- Communicating Incidents

Standards & Test Improvement Process

- Standards Considerations
- Improving the Test Process
- TMM
- TPI
- CTP
- STEP
- CMMI

ISTQB® Syllabus – AL – Technical Test Analyst (2007)

German Testing Board

Basic Aspects of Software Testing

- Testing in the Software Lifecycle
- Specific Systems
- Metrics and Measurements
- Ethics

Testing Processes

- Test Process Models
- Test Planning and Control
- Test Analysis and Design
- Test Implementation and Execution
- Evaluating Exit Criteria and Reporting
- Test Closure Activities

Test Management

- Test Management Documentation
- Test Plan Documentation Templates
- Test Estimation
- Scheduling Test Planning
- Test Progress Monitoring and Control
- Business Value of Testing
- Distributed, Outs. and Ins.Testing
- Risk-Based Testing
- Failure Mode and Effect Analysis
- Test Management Issues

Test Techniques

- Specification-Based
- Structure-Based
- Defect- and Experience-Based
- Static Analysis
- Dynamic Analysis

Testing of Software Characteristics

- Quality Attributes for Domain Testing
- Quality Attributes for Technical Testing

Standards & Test Improvement Process

- Standards Considerations
- Improving the Test Process
- TMM
- TPI
- CTP
- STEP
- CMMI

People Skills and Team Composition

- Individual Skills
- Test Team Dynamics
- Fitting Testing Within an Organization
- Motivation
- Communication

Test Tool and Automation

- Test Tool Concepts
- Test Tool Categories

Reviews

- The Principles of Reviews
- Types of Reviews
- Introducing Reviews
- Success Factors for Reviews

Inciedent Management

- When can a Defect be detected
- Defect Lifecycle
- Defect Fields
- Metrics and Incident Management
- Communicating Incidents

ISTQB® Syllabus - Expert Level

German Testing Board

- Recommended preconditions
  - Advanced Certificate (or appropriate partial certificates)
- Contents
  - Improving the Test Process
  - Test Automation (in preparation)
  - Security Testing (in preparation)
  - TTCN-3 (in preparation)
- Duration
  - Appr. 2-5 days for each module
- Objectives
  - In-depth training in a specialized area of testing

- preconditions
  - Foundation-level course
  - Higher-level courses on software engineering and advanced-level recommended
- Contents
  - Improving the Test Process
  - Test Automation (in preparation)
  - Security Testing (in preparation)
  - TTCN-3 (in preparation)
- **Student courses**
  - **Varying, depending on course context**
- Objectives
  - In-depth training in a specialized area of testing

ISTQB® Examinations

German Testing Board

- Examinations for the various training levels are offered and performed by neutral Certification Bodies (Examination Bodies)
- The Certification Bodies are authorized and named by the GTB
- Each named Certification Body must fulfill and apply the certification rules and processes of the GTB and the ISTQB®
- Examination questions come from the GTB and ISTQB®
- Named Examination Bodies:
  - DLGI (www.dlgi.de)
    Dienstleistungsgesellschaft für Informatik mbH
  - ISQI (www.isqi.org)
    International Software Quality Institute GmbH

ISTQB® Examinations **for Students**

German Testing Board

- On request from the teacher at the university
- Alternatively, in open exams by the exam providers

- Student fee is half of the examination fee for professionals

- Successful exams are **supported by GTB**
  - Half of the fee for all students
  - Complete fee for Bafög-supported students

DLGI

iSQI International Software Quality Institute

German Testing Board
www.german-testing-board.info

- Duration
  - An exam lasts 60 minutes
- Type of exam
  - The exam is in multiple-choice format
  - For each question there can be only one correct answer

GTB @ Universities

German Testing Board

- Timea Illes-Seifert, Universität Heidelberg
- Prof. Dr. Ina Schieferdecker, TU Berlin
- Prof. Dr. Mario Winter, FH Köln
- (Prof. Dr. Andreas Spillner, Hochschule Bremen)

Fachhochschule Köln
University of Applied Sciences Cologne

HOCHSCHULE BREMEN
UNIVERSITY OF APPLIED SCIENCES

CT at German Universities

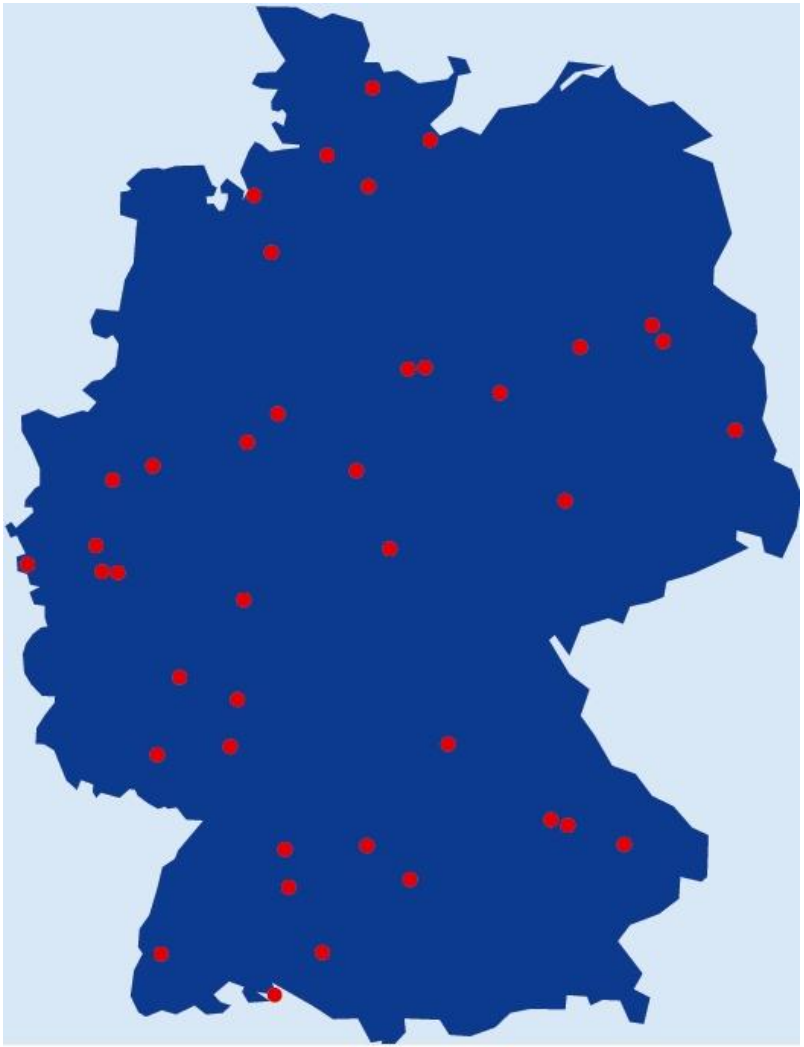
German Testing Board

- Service
  - Slide set for the recent foundation level syllabus
  - Set of exercises
  - CT examinations by CT certifier (separated from the university exams)
  - Q&A
  - Bi-annual workshops, flyer, newsletter
- Formally established end of 2006
  - Agreement between GTB and professors/institutions → terms of course approval and material usage

CT at German Universities

German Testing Board

- Albert-Ludwigs-Universität Freiburg
- Berufsakademie Eisenach
- Berufsakademie Ravensburg
- Brandenburgische Technische Universität Cottbus
- Duale Hochschule Baden-Württemberg
- Fachhochschule Aachen
- Fachhochschule Bingen
- Fachhochschule Bonn-Rhein-Sieg
- Fachhochschule Brandenburg
- Fachhochschule Braunschweig/Wolfenbüttel
- Fachhochschule Kaiserslautern
- Fachhochschule Kiel
- Fachhochschule Köln
- Fachhochschule Lübeck
- Fachhochschule Nordakademie, Elmshorn
- Fachhochschule Regensburg
- Fachhochschule Reutlingen
- Freie Universität Berlin
- HAW Hamburg
- Heinz-Nixdorf-Berufskolleg, Essen
- Hochschule Aalen
- Hochschule Anhalt
- Hochschule Bonn-Rhein-Sieg
- Hochschule Bremen
- Hochschule Bremerhaven
- Hochschule Deggendorf
- Hochschule Harz
- HTWG Konstanz
- Hochschule Ostwestfalen Lippe
- Justus-Liebig Universität Giessen
- Staatliche Studienakademie Leipzig
- Technische Universität Berlin
- Technische Universität Braunschweig
- Technische Universität Darmstadt
- Technisch-Gewerbliches Berufsbildungszentrum Dillingen
- Universität Dortmund
- Universität Erlangen-Nürnberg
- Universität Göttingen
- Universität Mannheim
- Universität Paderborn
- Universität Regensburg



CT at German Universities

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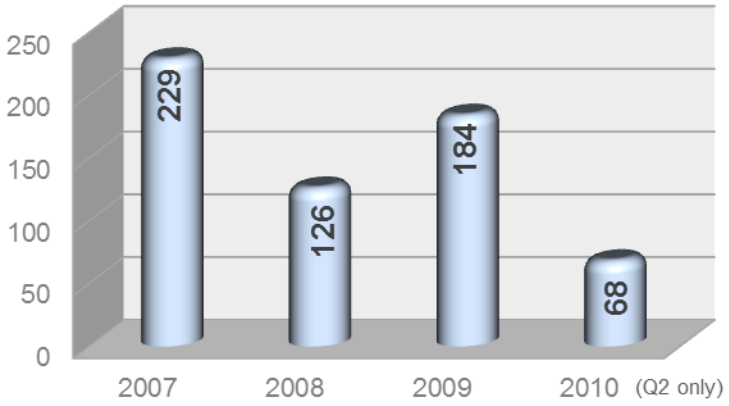
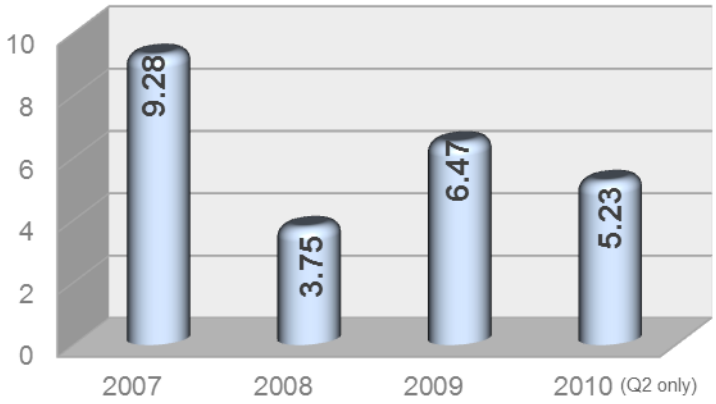


Absolute student numbers



Relative student numbers

Advantages

German Testing Board

- For the employee
  - Certification of his/her knowledge
  - Recognition of his/her role as a tester
  - Testing knowledge is necessary

- For the company
  - Qualification and motivation of employees
  - Testing is taken more seriously
  - Uniform language, knowledge and procedures

- **Recommendation:**
  At least one Certified Tester in each project!

Advantages **for the students**

German Testing Board

- For the student
  - Testing knowledge is necessary for profession
  - Relevant and recent knowledge
  - Certificate to demonstrate industry-relevant training

- For the university
  - Industry-relevant courses
  - Ready-to-use materials
  - Active research and education community

- For the future employer
  - All advantages as before

- **Recommendation:**
  At least one Certified Tester course in each software-related syllabus

German Software Testing Market

German Testing Board

- Top 20 Standard Software Companies in 2008 by Lünendonk, May 2009
  1. Microsoft Deutschland GmbH, Unterschleißheim
  2. SAP AG, Walldorf
  3. Oracle Deutschland GmbH, München
  4. Datev eG, Nürnberg
  5. Adobe Systems GmbH, München
  6. CompuGroup Holding AG, Koblenz
  7. Novell GmbH, Düsseldorf
  8. Infor Global Solutions Deutschland AG, Friedrichsthal
  9. CA Deutschland GmbH, Darmstadt
  10. SAS Deutschland, Heidelberg
  11. PSI AG, Berlin
  12. BMC Software GmbH, Frankfurt am Main
  13. Software AG, Darmstadt
  14. Sage Software GmbH, Frankfurt am Main
  15. Addison Software und Service GmbH, Ludwigsburg
  16. Nemetschek AG, München
  17. Mensch und Maschine Software SE, Wessling
  18. Interflex Datensysteme GmbH & Co. KG, Stuttgart
  19. Schleupen AG, Moers
  20. Beta Systems Software AG, Berlin

→ 7,55 Billion EUR Revenues in Germany in 2008

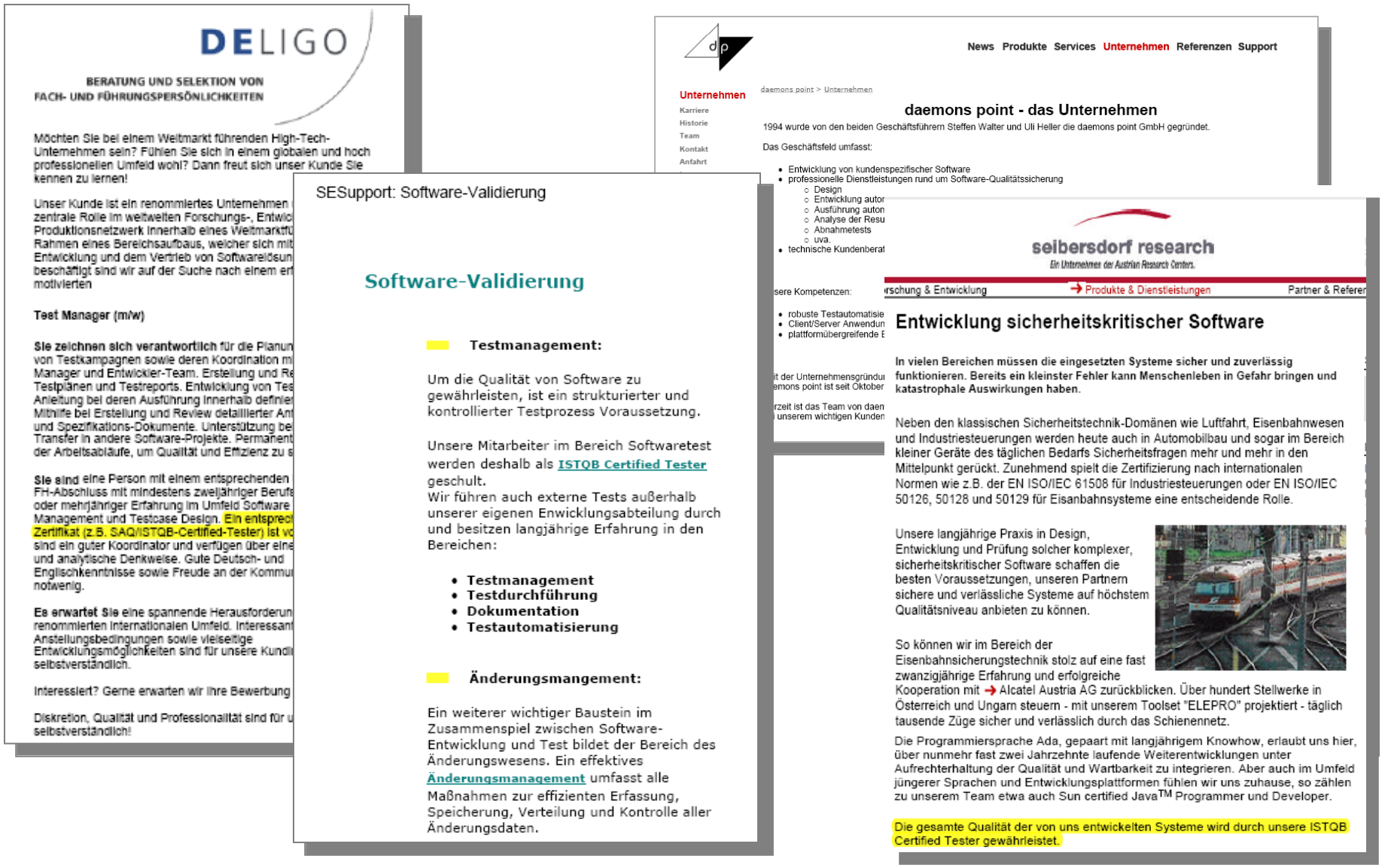
Bitkom: German ICT Sec tor Index 2010

ICT in Germany, Bitkom, 2010

- 830.000 jobs
- 3,8 % local content
- 18.000 companies
- 145 Billion EUR domestic market
- 24 % of all patents
- 57 Billion EUR export
- 33% growth share

Recognition by the German market

German Testing Board



DELIGO

BERATUNG UND SELEKTION VON FACH- UND FÜHRUNGSPERSÖNLICHKEITEN

Möchten Sie bei einem Weltmarkt führenden High-Tech-Unternehmen sein? Fühlen Sie sich in einem globalen und hoch professionellen Umfeld wohl? Dann freut sich unser Kunde Sie kennen zu lernen!

Unser Kunde ist ein renommiertes Unternehmen … zentrale Rolle im weltweiten Forschungs-, Entwic… Produktionsnetzwerk innerhalb eines Weltmarktfü… Rahmen eines Bereichsaufbaus, welcher sich mit … Entwicklung und dem Vertrieb von Softwarelösun… beschäftigt sind wir auf der Suche nach einem er… motivierten

Test Manager (m/w)

Sie zeichnen sich verantwortlich für die Planun… von Testkampagnen sowie deren Koordination m… Manager und Entwickler-Team. Erstellung und Re… Testplänen und Testreports. Entwicklung von Tes… Anleitung bei deren Ausführung innerhalb definier… Mithilfe bei Erstellung und Review detaillierter Ant… und Spezifikations-Dokumente. Unterstützung be… Transfer in andere Software-Projekte. Permanent… der Arbeitsabläufe, um Qualität und Effizienz zu s…

Sie sind eine Person mit einem entsprechenden … FH-Abschluss mit mindestens zweijähriger Berufs… oder mehrjähriger Erfahrung im Umfeld Software … Management und Testcase Design. Ein entsprech… Zertifikat (z.B. SAQ/ISTQB-Certified-Tester) ist vo… sind ein guter Koordinator und verfügen über eine… und analytische Denkweise. Gute Deutsch- und … Englischkenntnisse sowie Freude an der Kommu… notwenig.

Es erwartet Sie eine spannende Herausforderun… renommierten internationalen Umfeld. Interessant… Anstellungsbedingungen sowie vielseitige … Entwicklungsmöglichkeiten sind für unsere Kundi… selbstverständlich.

Interessiert? Gerne erwarten wir Ihre Bewerbung …

Diskretion, Qualität und Professionalität sind für u… selbstverständlich!

SESupport: Software-Validierung

Software-Validierung

Testmanagement:

Um die Qualität von Software zu gewährleisten, ist ein strukturierter und kontrollierter Testprozess Voraussetzung.

Unsere Mitarbeiter im Bereich Softwaretest werden deshalb als ISTQB Certified Tester geschult.
Wir führen auch externe Tests außerhalb unserer eigenen Enwicklungsabteilung durch und besitzen langjährige Erfahrung in den Bereichen:

- **Testmanagement**
- **Testdurchführung**
- **Dokumentation**
- **Testautomatisierung**

Änderungsmangement:

Ein weiterer wichtiger Baustein im Zusammenspiel zwischen Software-Entwicklung und Test bildet der Bereich des Änderungswesens. Ein effektives Änderungsmanagement umfasst alle Maßnahmen zur effizienten Erfassung, Speicherung, Verteilung und Kontrolle aller Änderungsdaten.

News Produkte Services Unternehmen Referenzen Support

Unternehmen
Karriere
Historie
Team
Kontakt
Anfahrt

daemons point > Unternehmen

daemons point - das Unternehmen

1994 wurde von den beiden Geschäftsführern Steffen Walter und Uli Heller die daemons point GmbH gegründet.

Das Geschäftsfeld umfasst:

- Entwicklung von kundenspezifischer Software
- professionelle Dienstleistungen rund um Software-Qualitätssicherung
  - Design
  - Entwicklung autor…
  - Ausführung auton…
  - Analyse der Resu…
  - Abnahmetests
  - uva.
- technische Kundenberat…

…sere Kompetenzen:

- robuste Testautomatisie…
- Client/Server Anwendun…
- plattformübergreifende E…

…t der Unternehmensgründu… …emons point ist seit Oktober …

…rzeit ist das Team von daen… …unserem wichtigen Kunden …

seibersdorf research
Ein Unternehmen der Austrian Research Centers.

…rschung & Entwicklung → Produkte & Dienstleistungen Partner & Referen…

Entwicklung sicherheitskritischer Software

In vielen Bereichen müssen die eingesetzten Systeme sicher und zuverlässig funktionieren. Bereits ein kleinster Fehler kann Menschenleben in Gefahr bringen und katastrophale Auswirkungen haben.

Neben den klassischen Sicherheitstechnik-Domänen wie Luftfahrt, Eisenbahnwesen und Industriesteuerungen werden heute auch in Automobilbau und sogar im Bereich kleiner Geräte des täglichen Bedarfs Sicherheitsfragen mehr und mehr in den Mittelpunkt gerückt. Zunehmend spielt die Zertifizierung nach internationalen Normen wie z.B. der EN ISO/IEC 61508 für Industriesteuerungen oder EN ISO/IEC 50126, 50128 und 50129 für Eisanbahnsysteme eine entscheidende Rolle.

Unsere langjährige Praxis in Design, Entwicklung und Prüfung solcher komplexer, sicherheitskritischer Software schaffen die besten Voraussetzungen, unseren Partnern sichere und verlässliche Systeme auf höchstem Qualitätsniveau anbieten zu können.

So können wir im Bereich der Eisenbahnsicherungstechnik stolz auf eine fast zwanzigjährige Erfahrung und erfolgreiche Kooperation mit → Alcatel Austria AG zurückblicken. Über hundert Stellwerke in Österreich und Ungarn steuern - mit unserem Toolset "ELEPRO" projektiert - täglich tausende Züge sicher und verlässlich durch das Schienennetz.

Die Programmiersprache Ada, gepaart mit langjährigem Knowhow, erlaubt uns hier, über nunmehr fast zwei Jahrzehnte laufende Weiterentwicklungen unter Aufrechterhaltung der Qualität und Wartbarkeit zu integrieren. Aber auch im Umfeld jüngerer Sprachen und Entwicklungsplattformen fühlen wir uns zuhause, so zählen zu unserem Team etwa auch Sun certified Java™ Programmer und Developer.

Die gesamte Qualität der von uns entwickelten Systeme wird durch unsere ISTQB Certified Tester gewährleistet.

Recognition by the German market (2)

German Testing Board

- Software tester offers as of Oct. 15, 2010
  - Job Scout24: 271 offers
  - Job Börse: 142 offers
  - Monster.de: 85 offers
  - Gigajob in Germany: 65 offers
  - ...
- Communities
  - ASQF: over 1000 members
  - Various online groups
    - LinkedIn: Global Testing Professionals, Software Testing & Quality Assurance, etc.
    - Xing: Agile Testing, etc.
    - Facebook: Software testing, etc.
  - Various blogs
  - …

Testimonials – Professionals

German Testing Board

- **Alex Bögli, Zühlke Engineering AG:**
  »The certification provides us with a common language.«

- **Dr. Karin Vosseberg, pdv.com Beratungs-GmbH:**
  » The certificate has brought me more recognition in my role as quality coach. I now have better access to my colleagues. «

- **Robin S. Heizmann, CREDIT SUISSE:**
  »Approximately 250 IT people in the Credit Suisse Private Banking Division in Switzerland are ISTQB® Certified Tester (SAQ) Foundation, with currently 40 of them also certified at Advanced level. appr. 200 IT people work in Software Testing, which represents at least 10% of the development organization. This means that more people are Certified Testers than work in the test organization. The training and certification were considered by the participants to be both helpful and relevant. For the Software QA separate career tracks for the roles Test Expert, Test Designer and Test Manager have been established. The Foundation Certificate is obligatory for all roles and for Test Managers also the Advanced Certificate. Substantial software quality improvements have already been achieved in the year following the introduction of the measures.«

Christian Blank, ATLAS ELEKTRONIK GMBH:

As a student at the Bremen University in the degree course „Computer Engineering“, Christian Blank enrolled for the elective course “Basic knowledge – Software testing”. He took this opportunity to take the examination for the ISTQB® Certified Tester. He was motivated and encouraged by the experiences of the course lecturer, Prof. Dr. Andreas Spillner. During his lecture he had reported about the feedback he had from former students, who had told him that the knowledge about systematically tested software was required in the economy and presents a distinct career advantage. The experiences which Christian Blank made at the end of his studies further confirmed these reports.

Since June 2009, the former student has now been employed with ATLAS ELEKTRONIK GmbH as test engineer in the area of software integration and test. He is convinced that it was the ISTQB®-certificate that opened the door for him to his job interview.

Lessons Learnt and Future Targets

German Testing Board

- Status
  - Successful establishment at universities
  - Integration with ASQF (free one year membership for all certified students) and GI TAV (TAV-Junior for software-testing PhD students)
- Lessons
  - Open setup gives room for various course formats
  - Regular interaction with teachers helpful (workshops, newsletters, etc.)
  - Extension/integration of the online teacher/student community to be considered
- Future targets
  - 10% student exams
  - Better feedback loop from teachers to GTB
  - Definition as mandatory element in software-related syllabi

Many thanks for your attention!

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