Model-Based Testing Essentials - Guide to the ISTQB Certified Model-Based Tester: Foundation Level

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**DESCRIPTION**

Provides a practical and comprehensive introduction to the key aspects of model-based testing as taught in the ISTQB® Model-Based Tester—Foundation Level Certification Syllabus

This book covers the essentials of Model-Based Testing (MBT) needed to pass the ISTQB® Foundation Level Model-Based Tester Certification. The text begins with an introduction to MBT, covering both the benefits and the limitations of MBT. The authors review the various approaches to model-based testing, explaining the fundamental processes in MBT, the different modeling languages used, common good modeling practices, and the typical mistakes and pitfalls. The book explains the specifics of MBT test implementation, the dependencies on modeling and test generation activities, and the steps required to automate the generated test cases. The text discusses the introduction of MBT in a company, presenting metrics to measure success and good practices to apply.

- Provides case studies illustrating different approaches to Model-Based Testing
- Includes in-text exercises to encourage readers to practice modeling and test generation activities
- Contains appendices with solutions to the in-text exercises, a short quiz to test readers, along with additional information

*Model-Based Testing Essentials – Guide to the ISTQB® Certified Model-Based Tester – Foundation Level* is written primarily for participants of the ISTQB® Certification: software engineers, test engineers, software developers, and anybody else involved in
software quality assurance. This book can also be used for anyone who wants a deeper understanding of software testing and of the use of models for test generation.

⚠️ ABOUT THE AUTHOR

Anne Kramer, PhD, is Senior Consultant and Project Manager at sepp.med gmbh, a German IT service provider specializing in quality assurance. Dr. Kramer has actively participated in the elaboration of the new ISTQB® Certified Test Model-Based Testing Syllabus. Dr. Kramer teaches model-based testing as part of the sepp.med training portfolio.

Bruno Legeard is Professor of Software Engineering at the University of Franche-Comté, co-founder and Scientific Advisor of Smartesting. Prof. Legeard is an ISTQB Certified Tester, member of the French Testing Board (CFTL) and he co-leads at ISTQB—International Software Testing Qualification Board—the writer of the new Certified Tester Model-Based Testing syllabus. He is a member of several program committees in software testing each year and an author of numerous publications in the field. In 2015, he became Program Chair of UCAAT—User Conference on Advanced Automated Testing.

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