# Overview

# Foundation Level Extension
# Model-Based Tester

Version 2015 – Beta Release

International Software Testing Qualifications Board

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# 1 Revision History

| Version | Date | Remarks |
|---|---|---|
| Beta 1.0 | 15 April 2015 | First beta version – Update of the alpha version on the basis of major findings from cross-functional review and technical editing |

Certified Tester
Foundation Level Syllabus – Model-Based Tester

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# Table of Contents

# 1 **Acknowledgements**

3 This document was produced by a team from the International Software Testing Qualifications Board
4 Foundation Level Working Group.

6 The ISTQB Certified Tester Foundation Level Extension - Model-Based Tester (CTFL-MBT) team thanks
7 the review team and all National Boards for their suggestions and input.

9 At the time the CTFL-MBT Syllabus was completed, the Model-Based Testing Working Group had the
10 following membership: Stephan Christmann (MBT WG Chair), Bruno Legeard (MBT Author Group Co-
11 Chair), Armin Metzger (MBT Author Group Co-Chair), Natasa Micuda (MBT Exam Question Group Chair),
12 Thomas Mueller (ISTQB CTFL WG Chair), Stephan Schulz (MBT Review Group Chair).

14 Authors: Stephan Christmann, Lars Frantzen, Anne Kramer, Bruno Legeard, Armin Metzger, Thomas
15 Mueller, Ina Schieferdecker, Stephan Weissleder.

17 Exam Question group: Bob Binder, Renzo Cerquozzi, Debra Friedenberg, Willibald Krenn, Karl Meinke,
18 Natasa Micuda, Michael Mlynarski, Ana Paiva, Marc-Florian Wendland.

20 Review group: Stephen Bird, Thomas Borchsenius, Mieke Gevers, Paul Jorgensen, Beata Karpinska,
21 Vipul Kocher, Gary Mogyorodi, Ingvar Nordstrom, Hans Schaefer, Romain Schmechta, Stephan Schulz,
22 Szilard Szell, Tsuyoshi Yumoto.

24 This document was formally approved for release by the General Assembly of the ISTQB® on xxxxx.

# 1 Introduction

This overview document is intended for anyone interested in the ISTQB Certified Tester Foundation Level Extension Model-Based Tester (CTFL-MBT) Syllabus. It provides a high-level introduction to leading principles and an overview of the content of the syllabus.

In this document, the Business Outcomes of the CTFL-MBT syllabus are defined. Each Business Outcome is provided through a specific statement of what can be expected from a person who achieves ISTQB CTFL-MBT Certification. It outlines the benefits for companies that are considering the development of specific Model-Based Testing skills at this level.

## 1.1 Career Paths for Testers

Based on the Certified Tester Foundation Level, the content of the Model-Based Testing syllabus provides additional skills for professional testers. A person holding the CTFL-MBT Certificate has extended the broad understanding of testing acquired at the Foundation Level to specific capabilities with Model-Based Testing process, methodology and techniques.
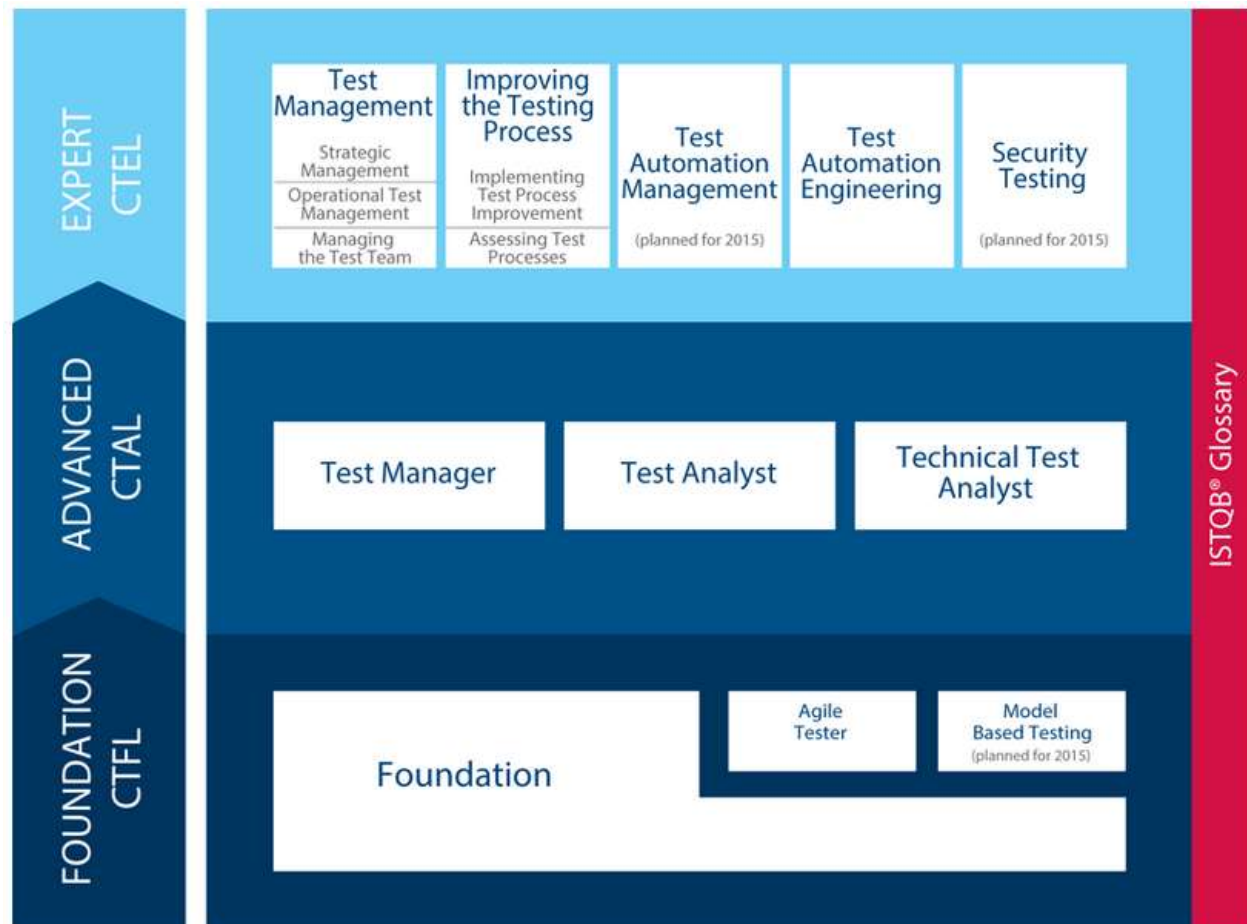
## 1.2 Entry Requirements

In order to best utilize the content of this syllabus, the candidate shall have mastered the learning objectives of the Foundation Level syllabus (in particular chapters 1, 2, 3, 4).

## 1.3 Structure and Course Duration

A certified model-based tester course has a minimum length of two days.

The following figure shows the structure of the Certified Model-Based Tester extension and its relationship to the Foundation Level.

Certified Tester
Foundation Level Syllabus – Model-Based Tester

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### 1.4  Intended Audience

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The CTFL-MBT qualification addresses people having reached the first level of achievement in their software testing career, including

- Testers
- Test Analysts
- Technical Test Analysts
- Test Managers
- System and Software Developers and Architects

This CTFL-MBT qualification is also beneficial for anyone who wants a deeper understanding of software testing and of the use of models for test generation, such as

- Project Managers
- Quality Managers
- Product Managers
- Business Analysts
- Business Process Experts

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## 1.5  Learning Objectives

In general the CTFL-MBT syllabus is examinable at a K1 level, i.e., the candidate will recognize, remember and recall terms and concepts stated in the Foundation and the specific CTFL-MBT syllabus.

The relevant Learning Objectives at K2 and K3 levels are provided at the beginning of each chapter within the CTFL-MBT Syllabus.

## 1.6  Name  and Acronym of the Certification

The name of this certification is "Certified Tester Foundation Level Extension - Model-Based Tester".

The acronym is: "CTFL-MBT".

## 1.7  Handling of Standards

Standards (IEEE, ISO, ETSI, etc.) are referenced in this syllabus The purpose of these references is to provide a source of additional information if desired by the reader. Please note that only the items from these standards that are referenced specifically in the syllabus are eligible for examination.  The standards documents themselves are not intended for examination and are included only for reference.

# 2 Overview of ISTQB CTFL-MBT Syllabus

## 2.1 Business Outcomes

This section lists the Business Outcomes expected of a candidate who has achieved the ISTQB CTFL-MBT certification.

The candidate, after having mastered the CTFL-MBT material and passed the examination, can …

MBT1 – Collaborate in a model-based testing team using standard terminology and established MBT concepts, processes and techniques.

MBT2 – Apply and integrate model-based testing in a test process.

MBT3 – Effectively create and maintain MBT models using established techniques and best practices of model-based testing.

MBT4 – Select, create and maintain test artifacts from MBT models considering risk and value of the features tested.

MBT5 – Support the organization to improve its quality assurance process to be more constructive and efficient.

In general, an ISTQB Certified Model-Based Tester has acquired the necessary skills to successfully contribute to MBT projects in a given context.

## 2.2 Content

See Certified Tester Foundation Level Extension Syllabus - Model-Based Tester document.

# 3 Documents Related to the CTFL-MBT Certification

The documents related to the ISTQB CTFL-MBT Certification are the following:

- General overview  (this document) – provides the business outcomes of the certification
- Syllabus – details the overall syllabus for ISTQB CTFL-MBT
- Sample Exam – provides samples of certified model-based tester exam questions.
- Accreditation rules – provides the accreditation rules to be followed by training providers when seeking accreditation of their courses