EXIN

TMap® Suite

Test Master

Preparation Guide

Edition 201610

TMap® Suite

Content

1. Overview

TMap® Suite Test Master (TMSTM.EN)

Summary

The world of IT is changing rapidly. Innovations are following each other in quick succession - not just in terms of technology, but also the way in which people work. Time-to-market and cost reduction are becoming more important by the day. These developments are often seen as a threat to the quality of developed software products. A human-driven and quality-focused approach mean these ways of working can provide opportunities to improve software quality.

The TMap® Suite, including TMap® HD – the human- and quality-driven approach, TMap NEXT® and the building blocks, contains everything organizations need to improve software quality. The TMap® test method has a long history: TMap® has been the leading testing standard since 1995. Hundreds of organizations around the world use TMap®.

The TMap Suite is the result of a complete renovation of TMap to optimally support the tester in a new era. The TMap testing method has a long history. Hundreds of organizations around the world are now using TMap, making TMap a leading standard for testing.

In the TMap® Suite Test Master module, you gain insight into how TMap NEXT® has grown to become TMap® Suite and how you as Test Master can successfully use the TMap® Suite elements.

A test master can recognize patterns in various test areas. He/she can:
- oversee and determine the test area from various perspectives;
- integrate the various building blocks;
- recognize the related opportunities and risks;
- resolve problems and make decisions.

Test Master is a classification: a test coach can be a master of testing, or also a test manager.

Context

This module is based on three sources which together constitute the TMap Suite. These are:
- The book "Neil's quest for quality, a TMap HD story". This book describes the new TMap Human Driven approach, which is specially developed for the new Agile and Human Driven world that is introduced in more and more organizations. The process is no longer leading, but the team, in which the testers themselves decide how to use a quality-driven approach to achieve the desired result.
- The book "TMap NEXT for result-driven testing." This approach suits the more traditional development environments, and is still relevant in many organizations.

- The building blocks of the website www.tmap.net describe specific test solutions to problems. These building blocks can be used in a flexible way by testers during their testing activities.

The workbook is based on these three sources and is mandatory exam literature.

The subjects of this module are:
- Managing the overall test activities
- Test varieties
- Supporting processes.

Target group

The TMap® Suite Test Master exam is primarily intended for people who are involved in test management activities on a daily basis: test managers, test coordinators and test consultants/advisors. The module will also be of interest to, for example, Test Leaders, Test Advisors, Quality Managers, IT Auditors and (Test) Department Managers.
The candidate has prior knowledge of the TMap® Suite Test Engineer module. Extensive experience with structured testing is desirable. General knowledge in the field of system development is assumed.

Certification requirements

Passing the EXIN TMap® Suite Test Master exam is a requirement for obtaining the certificate. It is recommended to follow TMap® Suite Test Master training by an EXIN Accredited Training Provider.

Exam details

Examination type	: Computer based multiple-choice questions
Number of questions	: 40
Pass mark	: 65% (26 out of 40)
Open book/notes	: no
Electronic equipment/aides permitted	: no
Time allotted for examination	: 90 minutes

The EXIN exam rules and regulations apply to this exam.

Sample exam

You can download a sample exam at www.exin.com.

Training

Contact hours

The recommended number of contact hours for this training course is 22. This includes group assignments, exam preparation and short breaks. This number of hours does not include homework, logistics for exam preparation and lunch breaks.

Indication study effort

120 hours, depending on existing knowledge.

Training provider

You can find a list of our accredited training providers at www.exin.com.

2. Exam requirements

The exam requirements are the subjects in the module. The exam requirements are detailed in the exam specifications. The following table shows the module subjects (exam requirements and exam specifications.) The weighting of the various subjects in the exam is expressed as a percentage of the total.

Exam requirement	Exam specification	Weight (%)
1 Managing the overall test activities		30
	1.1 Creating overall test activities	30
2 Test varieties		40
	2.1 Select test variety	10
	2.2 Acceptance and system tests	30
3 Supporting processes		30
	3.1 Various supporting processes	30
Total		100

Exam specifications

1. Managing the overall test activities (30%)

1.1 Creating overall test activities
The candidate can apply the test activities.
The candidate can:
1.1.1 describe the activities for creation of a master test plan;
1.1.2 describe the activities that are applied in an agile environment;
1.1.3 apply the business-driven test management (BDTM) approach to a master test plan;
1.1.4 apply the TMap HD elements;
1.1.5 describe the quality/human driven approach;
1.1.6 create an estimate for a test project.

2. Test varieties (40%)

2.1 Select test variety (10%)
The candidate can select from the various test varieties
The candidate can:
2.1.1 describe the test varieties;
2.1.2 apply the test approaches.

2.2 Acceptance and system tests (30%)
The candidate can deploy acceptance and system tests.
The candidate can:
2.2.1 organize defect management;
2.2.2 apply the activities of management and control of the test process;
2.2.3 apply the activities of management and control of the infrastructure
2.2.4 analyze test statistics;
2.2.5 apply various evaluation techniques;
2.2.6 give examples of activities and objectives in the Preparation, Specification, Execution and Completion phases.

3. Supporting processes (30%)

3.1 Various supporting processes
The candidate understands the supporting processes and can deploy them.
The candidate can:
3.1.1 explain the quality policy;
3.1.2 explain the quality measures;
3.1.3 set up the test organization types;
3.1.4 explain the requirements for the test environments and the use of various types of test environments;
3.1.5 execute the tool policy for implementing test tools;
3.1.6 name the differences in test management in traditional and agile environments.

Comment

The TMap® Suite Test Engineer and TMap® Suite Test Master modules are complementary to one another. TMap® Suite Test Master does not actually build on TMap® Suite Test Engineer, but combined they cover almost all aspects of TMap® including part of the book TMap NEXT® in SCRUM.

3. List of basic concepts

This Basic Concept list contains the terms with which candidates should be familiar.
Terms are listed in alphabetical order.

- acceptance test (AT)
- accuracy
- agile
- alternative test basis
- appearance
- application integrator
- BDTM aspects: Risk, Result, Time, Cost
- Building Blocks
- Built-in-quality
- business case
- business driven test management (BDTM)
- business-driven
- characteristic
- checklist
- completeness
- completion phase
- connectivity
- continuity
- Continuous Integration
- control phase
- corrective measures
- coverage
- coverage group
- coverage type
- critical path
- Crowd test
- CRUD
- data
- Data Combination Test (DcoT)
- data controllability
- Data Cycle Test (DcyT)
- Decision Table Test (DTT)
- defect
- Defect Detection Percentage (DDP)
- defect report
- defect administration
- Definition Of Done (DoD)
- detective measures
- development test
- DevOps
- DSDM

- efficiency
- Elementary Comparison Test (ECT)
- Error Guessing (EG)
- essentials
- estimation
- evaluating the test process
- evaluation
- execution phase
- Exploratory Testing (ET)
- eXtreme Programming (XP)
- fail-over possibilities
- flexibility
- Functional Acceptance Test (FAT)
- functionality
- Generic Test Agreement (GTA)
- heuristic evaluation
- information security
- infrastructure
- inspection
- IT governance
- iteration model
- Key Performance Indicators (KPIs)
- life cycle model
- maintainability
- manageability
- master test plan (MTP)
- metrics
- Model Based Review (MBR)
- Model Based Test Design (MBTd)
- Model Based Testing (MBT)
- Musing
- object part
- Pair Programming
- Performance
- permanent test organization
- planning phase
- portability
- preparation phase
- presentation
- preserving the testware
- pre-test
- preventive measures
- priority
- Process Cycle Test (PCT)
- product risk
- product risk analysis
- Production Acceptance Test (PAT)
- Proof Of Concept (POC)
- prototype
- quality
- quality assurance

- quality characteristic
- quality management
- Quality-driven approach
- Real-Life Test (RLT)
- recoverability
- regression test
- release advice
- reliability
- requirements
- retests
- reusability
- review
- risk class (RC)
- robustness
- RUP
- SCRUM
- security
- Semantic Test (SEM)
- setting up and maintaining infrastructure phase
- severity
- specification phase
- structured testing
- suitability
- suitability (of infrastructure)
- Syntactic Test (SYN)
- (system) development method: waterfall, agile, incremental, iterative
- system test (ST)
- techniques
- Test approach: experience-based, coverage based
- test basis
- test benefits
- test design
- test design technique
- test environment
- test estimation
- test goal
- test infrastructure coordinator
- test intensity
- test level
- test manager
- test master
- test method
- test object
- test object intake
- test organization
- test plan
- test policy
- test professional
- test roles
- test strategy
- test tool

- test type
- test unit
- test variety
- testability
- testability review
- testability review report
- Test-Driven Development (TDD)
- testing
- testware
- TMap essentials: Structured test process, Tool box, BDTM, Adaptive
- TMap HD elements: Simplify, Integrate, Industrialize, People, Confidence
- tooling
- tools for debugging and analyzing the code
- tools for designing the test
- tools for executing the test
- tools for planning and controlling the test
- unit integration test (UIT)
- unit test (UT)
- unstructured testing
- usability
- User Acceptance Test (UAT)
- user-friendliness
- V model
- walkthrough
- waterfall

Comment

Concepts included in the concept list, as well as abbreviations, can be questioned separately.

4. Literature

Exam Literature

A   **Workbook TMap® Suite**
Vianen, Sogeti Netherlands BV
www.tmap.net/certification

Additional literature

B   Koomen, T., Aalst, L. van der, Broekman, B., Vroon, M.
TMap® NEXT for result-driven testing
Vianen, Sogeti Netherlands BV, 2014
ISBN   9789075414806
Formerly published by:
UTN Publishers, 's Hertogenbosch, The Netherlands, 2006
ISBN   9789072194800

C   Boersma, A., Vooijs, E, Veltman, T.
Neil's Quest for Quality
A TMap® HD Story
Vianen, Sogeti Netherlands BV, 2014
ISBN   9789075414837
E-ISBN   9789075414844

D   Aalst, L. van der, Baarda, R., Roodenrijs, E., Vink, J., Visser, B.
TMap NEXT® Business Driven Test Management
Vianen, Sogeti Netherlands BV, 2013
ISBN   9789075414509

E   Aalst, L. van der; Davis, C.
TMap NEXT® in SCRUM
Vianen, Sogeti Nederland BV, 2013
ISBN   9789075414646
E-ISBN   9789075414653

Comment

The TMap® Suite Test Master exams are based on literature A, the TMap® Suite
Workbook.
Additional literature is for reference and in-depth knowledge only.

Overview of the literature

Exam requirement	Exam specification	Literature	Literature reference
1	1.1	A	Chapter 1
			§ 2.3
			§ 2.5
			§ 2.6
			§ 2.7
			§ 2.17
			§ 4.1.3
			§ 4.1.4
			§ 4.9
			§ 4.13
2	2.1	A	§ 2.8
			§ 2.9
			§ 2.10
			§ 2.11
			§ 2.14
			§ 3.2.3, 3.2.4, 3.2.5 and 3.2.6
			§ 4.4
	2.2	A	§ 2.20
			§ 4.1.4
			§ 4.3
			§ 4.4
			§ 4.7
			§ 4.10
			§ 4.11
3	3.1	A	§ 2.1
			§ 2.2
			§ 2.4
			§ 2.12
			§ 2.13
			§ 2.15
			§ 2.16
			§ 2.18
			§ 2.19
			§ 4.1.4
			§ 4.5
			§ 4.12

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