ISTQB® Glossary

Standard Glossary of Terms used in Software Testing

Version 4.2.1

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Search results

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All terms

acceptance criteria   Version 2

The criteria that a component or system must satisfy in order to be accepted by a user, customer, or other authorized entity.

Reference: ISO 24765

acceptance testing   Version 2

A test level that focuses on determining whether to accept the system.

See also: user acceptance testing

accessibility   Version 2

The degree to which a component or system can be used by people with the widest range of characteristics and capabilities to achieve a specified goal in a specified context of use.

Reference: After ISO 25010

actual result   Version 1

The behavior produced/observed when a component or system is tested.

Synonyms: actual outcome

ad hoc review   Version 2

A review technique performed informally without a structured process.

Reference: After ISO 20246

alpha testing   Version 3

A type of acceptance testing performed in the developer's test environment by roles outside the development organization.

anomaly   Version 1

A condition that deviates from expectation.

Reference: After ISO 24765

audit   Version 2

An independent examination of a work product or process performed by a third party to assess whether it complies with specifications, standards, contractual agreements, or other criteria.

Reference: After ISO 24765

availability   Version 2

The degree to which a component or system is operational and accessible when required for use.

Reference: After ISO 25010

beta testing   Version 3

A type of acceptance testing performed at an external site to the developer's test environment by roles outside the development organization.

black-box test technique   Version 3

A test technique based on an analysis of the specification of a component or system.

Synonyms: black-box test design technique, specification-based test technique

boundary value   Version 2

A minimum or maximum value of an ordered equivalence partition.

See also: boundary value analysis

boundary value analysis   Version 2

A black-box test technique in which test cases are designed based on boundary values.

See also: boundary value

change-related testing   Version 1

A type of testing initiated by modification to a component or system.

checklist-based review   Version 1

A review technique guided by a list of questions or required attributes.

Reference: ISO 20246

checklist-based testing   Version 2

An experience-based test technique whereby the experienced tester uses a high-level list of items to be noted, checked, or remembered, or a set of rules or criteria against which a product has to be verified.

coding standard   Version 1

A standard that describes the characteristics of a design or a design description of data or program components.

Reference: ISO 24765

commercial off-the-shelf   Version 2

A type of product developed in an identical format for a large number of customers in the general market.

Abbreviation: COTS

Synonyms: off-the-shelf software

compatibility   Version 1

The degree to which a component or system can exchange information with other components or systems, and/or perform its required functions while sharing the same hardware or software environment.

Reference: After ISO 25010

complexity   Version 1

The degree to which the design or code of a component or system is difficult to understand.

Reference: After ISO 24765

compliance   Version 2

Adherence of a work product to standards, conventions or regulations in laws and similar prescriptions.

Reference: IREB Glossary

component   Version 2

A part of a system that can be tested in isolation.

Synonyms: module, unit

component integration testing   Version 2

Testing in which the test items are interfaces and interactions between integrated components.

Synonyms: module integration testing, unit integration testing

component testing   Version 3

A test level that focuses on individual hardware or software components.

Synonyms: module testing, unit testing

concurrency   Version 1

The simultaneous execution of multiple independent threads by a component or system.

configuration management   Version 2

A discipline applying technical and administrative direction and surveillance to identify and document the functional and physical characteristics of a configuration item, control changes to those characteristics, record and report change processing and implementation status, and verify that it complies with specified requirements.

confirmation testing   Version 3

A type of change-related testing performed after fixing a defect to confirm that a failure caused by that defect does not reoccur.

Synonyms: re-testing

continuous integration   Version 1

An automated software development procedure that merges, integrates and tests all changes as soon as they are committed.

contractual acceptance testing   Version 2

A type of acceptance testing performed to verify whether a system satisfies its contractual requirements.

control flow Version 3

The sequence in which operations are performed by a business process, component or system.

Reference: After ISO 29119-4

cost of quality Version 1

The total costs incurred on quality activities and issues and often split into prevention costs, appraisal costs, internal failure costs and external failure costs.

coverage Version 2

The degree to which specified coverage items have been determined or have been exercised by a test suite expressed as a percentage.

Synonyms: test coverage

coverage criteria Version 1

The criteria to define the coverage items required to reach a test objective.

See also: coverage item

coverage item Version 2

An attribute or combination of attributes derived from one or more test conditions by using a test technique.

See also: coverage criteria

data-driven testing Version 2

A scripting technique that uses data files to contain the test data and expected results needed to execute the test scripts.

See also: keyword-driven testing

debugging Version 2

The process of finding, analyzing and removing the causes of failures in a component or system.

decision coverage Version 2

The coverage of decision outcomes.

decision table testing Version 3

A black-box test technique in which test cases are designed to exercise the combinations of conditions and the resulting actions shown in a decision table.

decision testing Version 2

A white-box test technique in which test cases are designed to execute decision outcomes.

defect Version 2

An imperfection or deficiency in a work product where it does not meet its requirements or specifications.

Reference: After ISO 24765

Synonyms: bug, fault

defect density Version 2

The number of defects per unit size of a work product.

Reference: After ISO 24765

Synonyms: fault density

See also: automation code defect density

defect management Version 3

The process of recognizing, recording, classifying, investigating, resolving and disposing of defects.

defect report Version 2

Documentation of the occurrence, nature, and status of a defect.

Synonyms: bug report

driver Version 2

A component or tool that temporarily replaces another component and controls or calls a test item in isolation.

Synonyms: test driver

dynamic analysis

Version 2

The process of evaluating a component or system based on its behavior during execution.

Reference: After ISO 24765

dynamic testing

Version 2

Testing that involves the execution of the test item.

Reference: After ISO 29119-1

See also: static testing

effectiveness

Version 2

The extent to which correct and complete goals are achieved.

Reference: ISO 9241

See also: efficiency

efficiency

Version 3

The degree to which resources are expended in relation to results achieved.

Reference: IREB Glossary

See also: effectiveness, performance efficiency

entry criteria

Version 2

The set of conditions for officially starting a defined task.

Reference: Gilb and Graham

See also: exit criteria

epic

Version 1

A large user story that cannot be delivered as defined within a single iteration or is large enough that it can be split into smaller user stories.

Reference: Agile Alliance

equivalence partition

Version 3

A subset of the value domain of a variable within a component or system in which all values are expected to be treated the same based on the specification.

Synonyms: equivalence class

equivalence partitioning

Version 2

A black-box test technique in which test cases are designed to exercise equivalence partitions by using one representative member of each partition.

Reference: After ISO 29119-1

Synonyms: partition testing

error

Version 1

A human action that produces an incorrect result.

Reference: ISO 24765

Synonyms: mistake

error guessing

Version 2

A test technique in which tests are derived on the basis of the tester's knowledge of past failures, or general knowledge of failure modes.

Reference: ISO 29119-1

exhaustive testing

Version 1

A test approach in which the test suite comprises all combinations of input values and preconditions.

Synonyms: complete testing

exit criteria

Version 2

The set of conditions for officially completing a defined task.

Reference: After Gilb and Graham

Synonyms: test completion criteria, completion criteria

See also: entry criteria

expected result   Version 2

The observable predicted behavior of a test item under specified conditions based on its test basis.

Reference: After ISO 29119-1

Synonyms: predicted outcome, expected outcome

experience-based test technique   Version 4

A test technique based on the tester's experience, knowledge and intuition.

Synonyms: experience-based test design technique, experience-based technique

experience-based testing   Version 1

Testing based on the tester's experience, knowledge and intuition.

exploratory testing   Version 3

An approach to testing in which the testers dynamically design and execute tests based on their knowledge, exploration of the test item and the results of previous tests.

Reference: After ISO 29119-1

See also: test charter

failed   Version 1

The status of a test result if the actual result does not match the expected result.

failure   Version 2

An event in which a component or system does not perform a required function within specified limits.

Reference: After ISO 24765

failure rate   Version 2

The ratio of the number of failures of a given category to a given unit of measure.

Reference: ISO 24765

false-negative result   Version 1

A test result which fails to identify the presence of a defect that is actually present in the test object.

Synonyms: false-pass result

false-positive result   Version 1

A test result in which a defect is reported although no such defect actually exists in the test object.

Synonyms: false-fail result

finding   Version 1

A result of an evaluation that identifies some important issue, problem, or opportunity.

formal review   Version 2

A type of review that follows a defined process with a formally documented output.

Reference: ISO 20246

functional suitability   Version 2

The degree to which a component or system provides functions that meet stated and implied needs when used under specified conditions.

Reference: After ISO 25010

Synonyms: functionality

See also: interoperability, security

functional testing   Version 3

Testing performed to evaluate if a component or system satisfies functional requirements.

Reference: After ISO 24765

high-level test case   Version 3

A test case with abstract preconditions, input data, expected results, postconditions, and actions (where applicable).

Synonyms: logical test case, abstract test case

See also: low-level test case

impact analysis   Version 2

The identification of all work products affected by a change, including an estimate of the resources needed to accomplish the change.

Reference: After ISO 24765

incremental development model   Version 2

A type of software development lifecycle model in which the component or system is developed through a series of increments.

Reference: After PMBOK

independence of testing   Version 1

Separation of responsibilities, which encourages the accomplishment of objective testing.

Reference: After DO-178C

informal review   Version 3

A type of review that does not follow a defined process and has no formally documented output.

inspection   Version 2

A type of formal review to identify issues in a work product, which provides measurement to improve the review process and the software development process.

Reference: After ISO 20246

integration testing   Version 2

A test level that focuses on interactions between components or systems.

integrity   Version 1

The degree to which a component or system allows only authorized access and modification to a component, a system or data.

Reference: After ISO 25010

interoperability   Version 2

The degree to which two or more components or systems can exchange information and use the information that has been exchanged.

Reference: After ISO 25010

See also: functional suitability

iterative development model   Version 1

A type of software development lifecycle model in which the component or system is developed through a series of repeated cycles.

keyword-driven testing   Version 2

A scripting technique in which test scripts contain high-level keywords and supporting files that contain low-level scripts that implement those keywords.

Synonyms: action word-driven testing

See also: data-driven testing

load testing   Version 2

A type of performance testing conducted to evaluate the behavior of a component or system under varying loads, usually between anticipated conditions of low, typical, and peak usage.

Reference: After ISO 29119-1

low-level test case   Version 3

A test case with concrete values for preconditions, input data, expected results, postconditions, and a detailed description of actions (where applicable).

Synonyms: concrete test case

See also: high-level test case

maintainability   Version 2

The degree to which a component or system can be modified by the intended maintainers.

Reference: After ISO 25010

See also: analyzability, modifiability, testability

maintenance
Version 2

The process of modifying a component or system after delivery to correct defects, improve quality characteristics, or adapt to a changed environment.

Reference: After ISO 24765

maintenance testing
Version 1

Testing the changes to an operational system or the impact of a changed environment to an operational system.

master test plan
Version 2

A test plan that is used to coordinate multiple test levels or test types.

See also: test plan

maturity
Version 2

(1) The capability of an organization with respect to the effectiveness and efficiency of its processes and work practices. (2) The degree to which a component or system meets needs for reliability under normal operation.

Reference: ISO 25010

measurement
Version 1

The process of assigning a number or category to an entity to describe an attribute of that entity.

Reference: After ISO 24765

memory leak
Version 2

A memory access failure due to a defect in a program's dynamic store allocation logic that causes it to fail to release memory after it has finished using it.

metric
Version 1

A measurement scale and the method used for measurement.

model-based testing
Version 2

Testing based on or involving models.

Abbreviation: MBT

moderator
Version 4

(1) The person responsible for running review meetings. (2) The person who performs a usability test session.

Synonyms: facilitator

modularity
Version 1

The degree to which a system is composed of discrete components such that a change to one component has minimal impact on other components.

Reference: After ISO 25010

non-functional testing
Version 3

Testing performed to evaluate that a component or system complies with non-functional requirements.

operational acceptance testing
Version 2

A type of acceptance testing performed to determine if operations and/or systems administration staff can accept a system.

Synonyms: production acceptance testing

passed
Version 1

The status of a test result if the actual result matches the expected result.

path
Version 1

A sequence of consecutive edges in a directed graph.

Synonyms: control flow path

peer review
Version 2

A review performed by others with the same abilities to create the work product.

Reference: After ISO 20246

See also: technical review, inspection, walkthrough

performance efficiency   Version 2

The degree to which a component or system uses time, resources and capacity when accomplishing its designated functions.

Reference: After ISO 25010

See also: efficiency

performance testing   Version 2

Testing to determine the performance efficiency of a component or system.

performance testing tool   Version 1

A test tool that generates load for a designated test item and that measures and records its performance during test execution.

perspective-based reading   Version 2

A review technique in which a work product is evaluated from the perspective of different stakeholders with the purpose to derive other work products.

Synonyms: perspective-based reviewing

planning poker   Version 1

A consensus-based estimation technique, mostly used to estimate effort or relative size of user stories in Agile software development. It is a variation of the Wideband Delphi method using a deck of cards with values representing the units in which the team estimates.

Reference: Mountain Goat Software

portability   Version 2

The degree to which a component or system can be transferred from one hardware, software or other operational or usage environment to another.

Reference: After ISO 25010

See also: adaptability, coexistence, installability, replaceability

postcondition   Version 2

The expected state of a test item and its environment at the end of test case execution.

precondition   Version 2

The required state of a test item and its environment prior to test case execution.

priority   Version 1

The level of (business) importance assigned to an item, e.g., defect.

probe effect   Version 2

An unintended change in behavior of a component or system caused by measuring it.

product risk   Version 2

A risk that impacts the quality of a product.

See also: risk

project risk   Version 2

A risk that impacts project success.

See also: risk

quality   Version 2

The degree to which a component or system satisfies the stated and implied needs of its various stakeholders.

Reference: After ISO 25010

quality assurance   Version 2

Activities focused on providing confidence that quality requirements will be fulfilled.

Abbreviation: QA

Reference: After ISO 24765

See also: quality management

quality characteristic
Version 3

A category of quality attributes that bears on work product quality.

Reference: ISO 24765

Synonyms: quality attribute, software quality characteristic, software product characteristic

quality control
Version 1

Activities designed to evaluate the quality of a component or system.

Abbreviation: QC

Reference: After ISO 24765

See also: testing

quality management
Version 1

The process of establishing and directing a quality policy, quality objectives, quality planning, quality control, quality assurance, and quality improvement for an organization.

Reference: After ISO 24765

See also: quality assurance

quality risk
Version 2

A product risk related to a quality characteristic.

regression testing
Version 3

A type of change-related testing to detect whether defects have been introduced or uncovered in unchanged areas of the software.

regulatory acceptance testing
Version 2

A type of acceptance testing performed to verify whether a system conforms to relevant laws, policies and regulations.

reliability
Version 2

The degree to which a component or system performs specified functions under specified conditions for a specified period of time.

Reference: After ISO 25010

See also: recoverability

reliability growth model
Version 2

A model that shows the growth in reliability over time of a component or system as a result of the defect removal.

requirement
Version 2

A provision that contains criteria to be fulfilled.

Reference: ISO 24765

retrospective
Version 2

A regular event in which team members discuss results, review their practices, and identify ways to improve.

Reference: After SAFe

Synonyms: project retrospective, retrospective meeting, post-project meeting

reusability
Version 1

The degree to which a work product can be used in more than one system, or in building other work products.

Reference: After ISO 25010

review
Version 3

A type of static testing in which a work product or process is evaluated by one or more individuals to detect defects or to provide improvements.

reviewer
Version 2

A participant in a review who identifies defects in the work product.

Reference: After ISO 20246

Synonyms: checker, inspector

risk
Version 1

A factor that could result in future negative consequences.

See also: product risk, project risk

risk analysis   Version 2

The overall process of risk identification and risk assessment.

risk level   Version 2

The measure of a risk defined by risk impact and risk likelihood.

Synonyms: risk exposure

risk management   Version 3

The process for handling risks.

Reference: After ISO 24765

risk mitigation   Version 2

The process through which decisions are reached and protective measures are implemented for reducing or maintaining risks to specified levels.

risk-based testing   Version 2

Testing in which the management, selection, prioritization, and use of testing activities and resources are based on corresponding risk types and risk levels.

Reference: After ISO 29119-1

role-based review   Version 2

A review technique in which a work product is evaluated from the perspective of different stakeholders.

root cause   Version 1

A source of a defect such that if it is removed, the occurrence of the defect type is decreased or removed.

Reference: CMMI

root cause analysis   Version 2

An analysis technique aimed at identifying the root causes of defects.

Synonyms: causal analysis

scenario-based review   Version 2

A review technique in which a work product is evaluated to determine its ability to address specific scenarios.

scribe   Version 2

A person who records information at a review meeting.

Reference: After ISO 24765

Synonyms: recorder

security   Version 2

The degree to which a component or system protects information and data so that persons or other components or systems have the degree of access appropriate to their types and levels of authorization.

Reference: After ISO 25010

Synonyms: information security

security testing   Version 1

Testing to determine the security of the software product.

sequential development model   Version 2

A type of software development lifecycle model in which a complete system is developed in a linear way of several discrete and successive phases with no overlap between them.

service virtualization   Version 1

A technique to enable virtual delivery of services which are deployed, accessed and managed remotely.

session-based testing   Version 1

A test approach in which test activities are planned as test sessions.

severity   Version 1

The degree of impact that a defect has on the development or operation of a component or system.

shift left   Version 1

An approach to performing testing and quality assurance activities as early as possible in the software development lifecycle.

See also: shift right

simulator   Version 1

A device, computer program or system used during testing, which behaves or operates like a given system when provided with a set of controlled inputs.

Reference: After ISO 24765

software development lifecycle   Version 1

The activities performed at each stage in software development, and how they relate to one another logically and chronologically.

Abbreviation: SDLC

Synonyms: lifecycle model

software lifecycle   Version 1

The period of time that begins when a software product is conceived and ends when the software is no longer available for use. The software lifecycle typically includes a concept phase, requirements phase, design phase, implementation phase, test phase, installation and checkout phase, operation and maintenance phase, and sometimes, retirement phase. Note these phases may overlap or be performed iteratively.

state transition testing   Version 3

A black-box test technique in which test cases are designed to exercise elements of a state transition model.

Synonyms: finite state testing

statement coverage   Version 2

The coverage of executable statements.

statement testing   Version 2

A white-box test technique in which test cases are designed to execute statements.

static analysis   Version 2

The process of evaluating a component or system without executing it, based on its form, structure, content, or documentation.

Reference: After ISO 24765

static testing   Version 3

Testing a work product without the work product code being executed.

structural coverage   Version 1

Coverage measures based on the internal structure of a component or system.

stub   Version 1

A skeletal or special-purpose implementation of a software component, used to develop or test a component that calls or is otherwise dependent on it. It replaces a called component.

Reference: After ISO 24765

system integration testing   Version 3

A test level that focuses on interactions between systems.

system testing   Version 2

A test level that focuses on verifying that a system as a whole meets specified requirements.

system under test   Version 2

A type of test object that is a system.

Abbreviation: SUT

technical review   Version 3

A formal review by technical experts that examine the quality of a work product and identify discrepancies from specifications and standards.

See also: peer review

test   Version 1

A set of one or more test cases.

test analysis | Version 2

The activity that identifies test conditions by analyzing the test basis.

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test approach | Version 2

The implementation of the test strategy for a specific project.

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test automation | Version 2

The use of software to perform or support test activities.

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test basis | Version 2

The body of knowledge used as the basis for test analysis and design.

Reference: After TMap

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test case | Version 2

A set of preconditions, inputs, actions (where applicable), expected results and postconditions, developed based on test conditions.

See also: test step

---

test charter | Version 3

Documentation of the goal or objective for a test session.

Synonyms: charter

See also: exploratory testing

---

test completion | Version 2

The activity that makes testware available for later use, leaves test environments in a satisfactory condition and communicates the results of testing to relevant stakeholders.

---

test completion report | Version 3

A type of test report produced at completion milestones that provides an evaluation of the corresponding test items against exit criteria.

Synonyms: test summary report

---

test condition | Version 3

A testable aspect of a component or system identified as a basis for testing.

Reference: After ISO 29119-1

Synonyms: test situation, test requirement

---

test control | Version 2

The activity that develops and applies corrective actions to get a test project on track when it deviates from what was planned.

See also: test management

---

test cycle | Version 1

An instance of the test process against a single identifiable version of the test object.

---

test data | Version 3

Data needed for test execution.

Synonyms: test dataset

---

test data preparation | Version 1

The activity to select data from existing databases or create, generate, manipulate and edit data for testing.

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test design | Version 3

The activity that derives and specifies test cases from test conditions.

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test environment | Version 1

An environment containing hardware, instrumentation, simulators, software tools, and other support elements needed to conduct a test.

Reference: ISO 24765

Synonyms: test bed, test rig

---

test estimation | Version 2

An approximation related to various aspects of testing.

---

test execution   Version 2

The activity that runs a test on a component or system producing actual results.

test execution schedule   Version 2

A schedule for the execution of test suites within a test cycle.

test execution tool   Version 1

A test tool that executes tests against a designated test item and evaluates the outcomes against expected results and postconditions.

test harness   Version 2

A collection of stubs and drivers needed to execute a test suite

test implementation   Version 2

The activity that prepares the testware needed for test execution based on test analysis and design.

test infrastructure   Version 1

The artifacts needed to perform testing, consisting of test environments, test tools, office environment and procedures.

test item   Version 2

A part of a test object used in the test process.

See also: test object

test leader   Version 1

On large projects, the person who reports to the test manager and is responsible for project management of a particular test level or a particular set of testing activities.

Synonyms: lead tester

See also: test manager

test level   Version 2

A specific instantiation of a test process.

Synonyms: test stage

test management   Version 2

The process of planning, scheduling, estimating, monitoring, reporting, controlling, and completing test activities.

Reference: ISO 29119-1

See also: test control, test monitoring

test management tool   Version 2

A tool that supports test management.

test manager   Version 2

The person responsible for project management of testing activities, resources, and evaluation of a test object.

See also: test director, test leader, Agile test leader

test monitoring   Version 3

The activity that checks the status of testing activities, identifies any variances from planned or expected, and reports status to stakeholders.

See also: test management

test object   Version 2

The work product to be tested.

See also: test item

test objective   Version 2

The reason or purpose of testing.

Synonyms: test goal

test oracle
Version 2

A source to determine an expected result to compare with the actual result of the system under test.

Reference: After Adrion

Synonyms: oracle

test plan
Version 2

Documentation describing the test objectives to be achieved and the means and the schedule for achieving them, organized to coordinate testing activities.

Reference: After ISO 29119-1

See also: master test plan, level test plan, test scope

test planning
Version 1

The activity of establishing or updating a test plan.

test policy
Version 1

A high-level document describing the principles, approach and major objectives of the organization regarding testing.

Synonyms: organizational test policy

See also: test mission

test procedure
Version 1

A sequence of test cases in execution order, and any associated actions that may be required to set up the initial preconditions and any wrap up activities post execution.

Reference: ISO 29119-1

test process
Version 2

The set of interrelated activities comprising of test planning, test monitoring and control, test analysis, test design, test implementation, test execution, and test completion.

test process improvement
Version 1

A program of activities undertaken to improve the performance and maturity of the organization's test processes.

Reference: After CMMI

test progress report
Version 3

A type of test report produced at regular intervals about the progress of test activities against a baseline, risks, and alternatives requiring a decision.

Synonyms: test status report

test report
Version 1

Documentation summarizing test activities and results.

test reporting
Version 1

Collecting and analyzing data from testing activities and subsequently consolidating the data in a report to inform stakeholders.

test result
Version 1

The consequence/outcome of the execution of a test.

Synonyms: outcome, test outcome, result

test script
Version 2

A sequence of instructions for the execution of a test.

test session
Version 1

An uninterrupted period of time spent in executing tests.

test strategy
Version 3

Documentation aligned with the test policy that describes the generic requirements for testing and details how to perform testing within an organization.

Synonyms: organizational test strategy

test suite   Version 3

A set of test scripts or test procedures to be executed in a specific test run.

Synonyms: test set, test case suite

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test technique   Version 3

A procedure used to define test conditions, design test cases, and specify test data.

Synonyms: test design technique

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test type   Version 2

A group of test activities based on specific test objectives aimed at specific characteristics of a component or system.

Reference: After TMap

---

test-first approach   Version 1

An approach to software development in which the test cases are designed and implemented before the associated component or system is developed.

See also: test-driven development

---

testability   Version 3

The degree to which test conditions can be established for a component or system, and tests can be performed to determine whether those test conditions have been met.

Reference: After ISO 25010

See also: maintainability

---

tester   Version 2

A person who performs testing.

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testing   Version 2

The process consisting of all lifecycle activities, both static and dynamic, concerned with planning, preparation and evaluation of a component or system and related work products to determine that they satisfy specified requirements, to demonstrate that they are fit for purpose and to detect defects.

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testware   Version 2

Work products produced during the test process for use in planning, designing, executing, evaluating and reporting on testing.

Reference: After ISO 29119-1

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traceability   Version 2

The degree to which a relationship can be established between two or more work products.

Reference: After ISO 19506

---

usability   Version 3

The degree to which a component or system can be used by specified users to achieve specified goals in a specified context of use.

Reference: After ISO 25010

See also: user interface aesthetics, operability, appropriateness recognizability

---

usability testing   Version 2

Testing to evaluate the degree to which the system can be used by specified users with effectiveness, efficiency and satisfaction in a specified context of use.

Reference: After ISO 25010

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use case testing   Version 3

A black-box test technique in which test cases are designed to exercise use case behaviors.

Synonyms: user scenario testing, scenario testing

---

user acceptance testing   Version 4

A type of acceptance testing performed to determine if intended users accept the system.

Abbreviation: UAT

See also: acceptance testing

user interface   Version 1

All components of a system that provide information and controls for the user to accomplish specific tasks with the system.

user story   Version 3

A user or business requirement consisting of one sentence expressed in the everyday or business language which is capturing the functionality a user needs, the reason behind it, any non-functional criteria, and also including acceptance criteria.

See also: user story testing

V-model   Version 2

A sequential software development lifecycle model describing a one-for-one relationship between major phases of software development from business requirements specification to delivery, and corresponding test levels from acceptance testing to component testing.

validation   Version 1

Confirmation by examination and through provision of objective evidence that the requirements for a specific intended use or application have been fulfilled.

Reference: ISO 9000

verification   Version 1

Confirmation by examination and through provision of objective evidence that specified requirements have been fulfilled.

Reference: ISO 9000

walkthrough   Version 2

A type of review in which an author leads members of the review through a work product and the members ask questions and make comments about possible issues.

Reference: After ISO 20246

Synonyms: structured walkthrough

white-box test technique   Version 3

A test technique only based on the internal structure of a component or system.

Synonyms: white-box test design technique, structure-based test technique

white-box testing   Version 1

Testing based on an analysis of the internal structure of the component or system.

Synonyms: clear-box testing, code-based testing, glass-box testing, logic-coverage testing, logic-driven testing, structural testing, structure-based testing

Wideband Delphi   Version 1

An expert-based test estimation technique that aims at making an accurate estimation using the collective wisdom of the team members.

Independent testing is a process where an external team examines an application or software without being part of the development process.