



GTS EDUTECH

Test Strategy

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Agenda



- What is Test Strategy?
- Parameters
- Approach
- Types of Strategy
- Steps in Strategy
- Test Strategy in STLC
- Test Plan Vs Test Strategy

Test Strategy



- A **test strategy** is an outline that describes the testing approach of the software development cycle.
- It is created to inform stakeholders, project managers, testers, and developers about some key issues of the testing process like
 - testing objective
 - methods of testing new functions
 - total time and resources required for the project
 - testing environment

Parameters



- Risks and Mitigation
- entry and exit criteria
- Testing tools
- Test Levels, methodologies, types
- Requirements traceability matrix
- Test Status Collections and Reporting
- Test Priorities

Approach



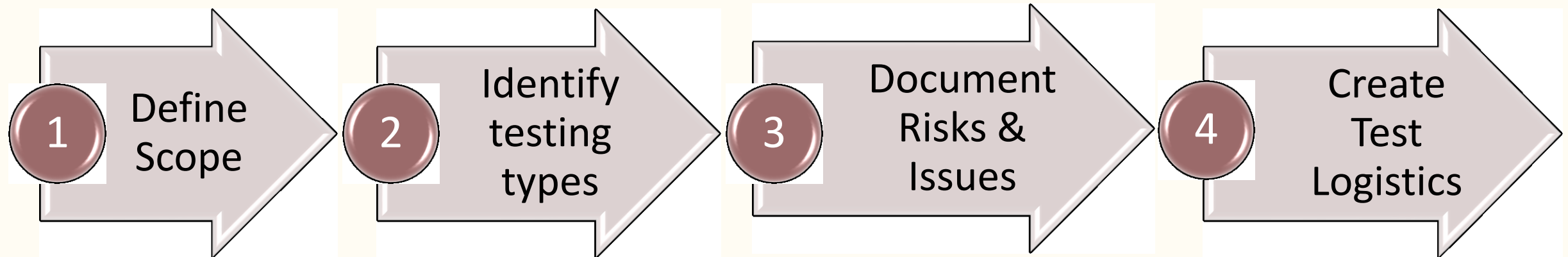
- Test approach has two techniques:
 - **Proactive** - An approach in which the test design process is initiated as early as possible in order to find and fix the defects before the build is created.
 - **Reactive** - An approach in which the testing is not started until after design and coding are completed.

Types of Test Strategy



- **Dynamic** and **heuristic** approaches
- **Consultative** approaches
- **Model-based** approach that uses statistical information about failure rates.
- Approaches based on **risk-based** testing where the entire development takes place based on the risk
- **Methodical** approaches which is based on failures.
- **Standard-compliant** approach specified by industry-specific standards.

Steps in Test Strategy



Test Strategy in STLC



Test Plan Vs Test Strategy

Test Plan	Test Strategy
A document that defines the scope, objective, approach and emphasis on a software testing effort	A set of guidelines that explains test design and determines how testing needs to be done
Components of Test plan - Test plan id, features to be tested, test techniques, testing tasks, features pass or fail criteria, test deliverables, responsibilities, and schedule, etc.	Components of Test strategy - objectives and scope, documentation formats, test processes, team reporting structure, client communication strategy, etc.
Carried out by a testing manager or lead that describes how to test, when to test, who will test and what to test	Carried out by the project manager or Test Architects. It says what type of technique to follow and which module to test
Test plan narrates about the specification	Test strategy narrates about the general approaches

Test Plan Vs Test Strategy



Test Plan	Test Strategy
Test plan can change	Test strategy cannot be changed
Test planning is done to determine possible issues and dependencies in order to identify the risks.	It is a long-term plan of action. You can abstract information that is not project specific and put it into test approach
A test plan exists individually	In smaller project, test strategy is often found as a section of a test plan
It is defined at project level	It is set at organization level and can be used by multiple projects

