

UTILIZATION OF TESTING TOOLS

- Tools from a software testing context can be defined as a product that supports one or more test activities right from planning, requirements, creating a build, test execution, defect logging and test analysis.

CLASSIFICATION OF TOOLS

- Tools can be classified based on several parameters. They include:
- The purpose of the tool
- The Activities that are supported within the tool
- The Type/level of testing it supports
- The Kind of licensing (open source, freeware, commercial)
- The technology used

TYPES OF TOOLS:

S.No.	Tool Type	Used for	Used by
1.	Test Management Tool	Test Managing, scheduling, defect logging, tracking and analysis.	testers
2.	Configuration management tool	For Implementation, execution, tracking changes	All Team members
3.	Static Analysis Tools	Static Testing	Developers
4.	Test data Preparation Tools	Analysis and Design, Test data generation	Testers
5.	Test Execution Tools	Implementation, Execution	Testers
6.	Test Comparators	Comparing expected and actual results	All Team members
7.	Coverage measurement tools	Provides structural coverage	Developers
8.	Performance Testing tools	Monitoring the performance, response time	Testers
9.	Project planning and Tracking Tools	For Planning	Project Managers
10.	Incident Management Tools	For managing the tests	Testers

TOOLS IMPLEMENTATION - PROCESS

- Analyse the problem carefully to identify strengths, weaknesses and opportunities
- The Constraints such as budgets, time and other requirements are noted.
- Evaluating the options and Shortlisting the ones that are meets the requirement
- Developing the Proof of Concept which captures the pros and cons
- Create a Pilot Project using the selected tool within a specified team
- Rolling out the tool phase wise across the organization