Provides:
- Able to create better test plans which are ready as soon as development ends.
- Testers learn the system functionality as the project develops, before it is ready for testing.
- Each step and component is validated before moving ahead to the next one.
- Quality of specifications & design improves by feedback of test planning and design.
- QA documentation allows for a repeatable process.
- Allows greater success to do it right the first time.
- Creates opportunity to improve on the process.

Eliminates:
- Testing = Debugging
- Last minute fires
- Narrow scope of testing
- Testing time constraints
- Unstructured testing
Radar Team
Testing Methodology

Testing Methodology: A set of structured testing practices and procedures used to provide a reliable and repeatable outcome.

Testing Planning & Design – This begins at the Analysis stage of a project and continues through the Development phase. During this time, QA develops test plans, documents the functional processes, learns each component of the system, and provides design feedback. This process allows testers to be ready to execute tests as soon as development is completed.

Creating Test Cases – QA uses a combination of various techniques to create test cases. The system being developed will dictate which methods will be used. Some of the methods used to create test cases are:

   Functional Analysis:
   o System Standards
   o Expectations of the system
   o System Objective

   Sampling:
   o Positive and Negative Analysis
   o Boundary Analysis

   Experience Based:
   o Risk Based Analysis
   o User Scenarios
   o Exploratory Testing

Test Execution – Various combinations of testing approaches are used to execute test scripts. The nature of the system to be tested will determine which kind of testing will be done. The various types of testing procedures that are currently used are:

   Module Integration Testing:
   o Usability
   o Browser Compatibility
   o Functional Standards

   System Integration Testing:
   o Interface Testing
Security Testing:
  - System Access
  - User Role Testing
  - Browser Security – Encryption/SSL

Stress/Load Testing:
  - Hardware Scalability
  - Hardware Stability

Performance Testing:
  - Volume Testing
  - Software Stability

Disaster Recovery Testing:
  - Data Recovery
  - Hardware Recovery
  - Switch-Over

Regression Testing:
  - Change Control
  - Hardware upgrades
  - Component Add-Ons