Testing Against Users Expectation

* Typically verifies the functional fitness of the system for business users
* Note: Acceptance testing can take place before System testing starts.
* Also testing for future potential uses

It is a crucial element for making sure the product will be functional in its perceived environment.

Additional aspects to think about at this points are:

1. Back-up
2. Procedures for disaster recovery
3. End User Training
4. Maintenance Procedures
5. Security Procedures

Contract and Regulation - Acceptance Testing

Contractual – Acceptance criteria outlined in a contract

Regulations – Some industries have rigid regulations that must be abided by:

* Governmental
* legal
* Safety reasons

Ignorance is not a defence that can be used it is your responsibility to work within the boundaries of the law.

Alpha/Beta Testing

* Alpha – Performed at the developing site, nut not by the developing team
* Beta – Performed by customers at their own location

Allows for feedback from potential or existing customers

Types of Testing

* Functional - Specification Bases, Black Box(Can be done at all levels)
* Non-Functional – Performance, Usability (Often Used to check the readiness of the system)
* Structural – Control Flow, Menu Structure, White-Box(Can be done at all levels)
* Change Related - Carried out on a live system

Structural(White Box)

How the code makes the functionality work. What is happening ’under the hood’

* Decision Coverage
* Statement Coverage

Retesting(Confirmation Testing)

* After a defect has been fixed, the software should be retested to confirm original defect has been removed.

Regression Testing

Carried out on every other part of the system to check a fixed defect hasn’t changed other parts of the system

* Repeated testing of already tested program
* Performed when software or environments changed
* Based on risk
* Performed at all levels(functional, non-functional, structural)

Change Related Maintenance Testing

Testing in a live environment when there has been

* Modification
* Migration
* Retirement of Software

Impact Analysis(Risk) and Metrics from previous projects are very important in this area.

* They help estimate the amount of retesting and regression testing
* What are the possible consequences?
* What areas will remain unchanged.