

## Unit 9 : Quality Management

\* Explain Software Quality Concepts.

=> When we create a Software then we have to take about the software quality.

Software Quality should be always high and not change software quality of software at any cost.

This are the Basic Software Quality Factors which we have to follow manage. or

(i) Portability : Software Quality should be portable which means software quality ~~at~~ can not be change at any type of system.

(ii) Usability : We have to create a Software Quality in a way that can be change or use

easily.

(iii) Correctness: We have to create Software quality such a way that can be present in SRS document.

(iv) Reliability: When Software is fail in some condition than software should provide more reliable.

(v) Efficiency: Software Quality should be require less CPU-time, less disk memory or less network bandwidth.

This are the basic Quality Factor which can help to increase software performances.

Using this factor, We can always increase software quality in the real-world.

Software Quality should be provides always better user interface and performances.

\* Explain Software Quality Assurance  
OR  
Explain Software Quality  
Formal Approaches.

=> Software Quality Assurance is used to provide the better Software Quality.

Software Quality Assurance is consists a set of Activities which helps to increase the software quality.

Software Quality Assurance is also consists a set of method or Processes which is also increase the software quality.

In Software Quality Assurance, we have to always create a plan for a project.

SQA is also provides the standards that are applicable for the software project.

This Plan is consists Error Report, Tracking or Audits

and reviews information.

In SQA, every software developing team have to select the process and create a process description.

SQA groups is also identify all the document such as audits report or Tracking document.

The SQA is always provides the different activities and method which is always gives a high-quality.

\* Explain different Quality ISO Standards.

=> ISO stands for International Standard Organization which is use in Software Quality standards.

This are the main types of ISO standards.

- Different ISO standard are provides different Features and Functions.

- ISO 9000:2000 - This ISO standard is contains All the Software Quality Management system.
- ISO 9000-1:1994 - This ISO standard is contains Quality Management Systems and Quality Assurance standards.
- ISO 9000-2:1997 - This ISO standard is contain ISO 9000-1:1994, ISO 9007, ISO 9002 and ISO 9003 standards.
- ISO 9000-3:1997 - This ISO standard is includes development supply, installation and maintenance of computer installation.
- ISO 9001-2000 : This standard is includes Quality Management Systems.
- ISO 9001:1994 : This standard is includes Quality Assurance Model which is used in production, installation and servicing.