V-Shaped model:

The development of each step is directly associated with testing phase for each development activity there is a testing activity. In this model testing is involved in every phase.

Spiral model:

When changes may require any anytime. Risk analysis is need to be maintained every phase. Phases involved in spiral model are

* Planning
* Risk analysis & resolving
* Develop the next version
* Plan the next phase

In every phase new software will be released to customer. Requirement changes are allowed after every cycle before going to next cycle.

Incremental model:

Here requirements are divided into standalone modules. This model is useful when the customer demands a quick release of product.

Design & Development Testing Implementation

**Requirements**

Design & Development Testing Implementation

Design & Development Testing Implementation

**Quality Assurance**: It is a process that verifies the quality of a software product. Evaluation of software based on functionality, performance, adaptability. It prevents defects rather than just detecting them. QA is a process oriented. QA is a verification step. Techniques of QA:

* Requirement Analysis
* Code reviews & inspections
* Automate & manual Testing

**Quality control:** It is method to achieve quality parameters to ensure that a software product meets the quality requirements or not. QC is performed after the QA is done.

**Quality Engineer**: QE engages throughout the development cycle from beginning to the final deployment. QE focuses on preventing defects. Develop and maintain automated test scripts.

**System Testing:** It is a type of software testing that evaluates the overall functionality of a product before it is released.