

2.1.1 Software Development and Software Testing

It is an important part of a tester's role to be familiar with the common software development lifecycle models so that appropriate test activities can take place.

In any software development lifecycle model, there are several characteristics of good testing:

- For every development activity, there is a corresponding test activity
- Each test level has test objectives specific to that level
- Test analysis and design for a given test level begin during the corresponding development activity
- Testers participate in discussions to define and refine requirements and design, and are involved in reviewing work products (e.g., requirements, design, user stories, etc.) as soon as drafts are available

No matter which software development lifecycle model is chosen, test activities should start in the early stages of the lifecycle, adhering to the testing principle of early testing.

This syllabus categorizes common software development lifecycle models as follows:

- Sequential development models
- Iterative and incremental development models