

## Review and Testing in Software Process



The **waterfall model** considers software design as consisting of a number of stages, or phases. We need to conduct review and testing in **every** phase.

1. Requirement Phase: **Software Quality Assurance (SQA)** team makes sure the user's needs are met.
2. Specification Phase: Product functionality is formally specified. The software contract is this formal specification. SQA team makes sure the specification is unambiguous, free of contradictions and complete. The specification document must be **traceable**, i.e., every spec statement can be traced back to the client's requirement statement, and conversely. The spec document is tested through a **formal review** or **walk-through**.
3. Planning Phase: A **Software Project Management Plan (SPMP)** must be written. SQA team reviews the SPMP.
4. Design Phase: Product is decomposed into **modules**. Two phases: architectural design and detailed design. CASE tools can be fruitfully employed. Design reviews and walk-throughs are conducted.