The objective of Software Testing and Validation is to verify whether or not the end product meets the initial requirements. Software Testing and Validation is carried out during all the other software related steps. The process is splinted in 3 main methods: Code Review , Test Cases and Formal Proofs.

Code review consists of having a group of people assess and review lines of code. For every review a report has to be created, from a simple Walkthrough to a Formal Peer Review or Pair Programing.

Test Cases must be created describing with an input and an expected output, the Test Run must cover all statements, conditions and decisions, all executions of the test cases must be documented along with a description of the result of the test.

The Formal Proofs is checking if requirements written in a mathematical logic satisfy the UPPAAL models of the Software Specification.