Difference between software **Verification and Validation**:

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| **Verification** | **Validation** |
| Are we building the system right? | Are we building the right system? |
| **Verification** is the process of evaluating products of a development phase to find out whether they meet the specified requirements. | **Validation** is the process of evaluating software at the end of the development process to determine whether software meets the customer expectations and requirements. |
| The objective of Verification is to make sure that the product being develop is as per the requirements and design specifications. | The objective of Validation is to make sure that the product actually meet up the user’s requirements, and check whether the specifications were correct in the first place. |
| Following activities are involved in **Verification**: Reviews, Meetings and Inspections. | Following activities are involved in **Validation**: Testing like black box testing, white box testing, gray box testing etc. |
| **Verification** is carried out by QA team to check whether implementation software is as per specification document or not. | **Validation** is carried out by testing team. |
| Execution of code is not comes under **Verification**. | Execution of code is comes under **Validation**. |
| **Verification** process explains whether the outputs are according to inputs or not. | **Validation** process describes whether the software is accepted by the user or not. |
| **Verification** is carried out before the Validation. | **Validation** activity is carried out just after the Verification. |
| Following items are evaluated during **Verification**: Plans, Requirement Specifications, Design Specifications, Code, Test Cases etc, | Following item is evaluated during **Validation**: Actual product or Software under test. |
| Cost of errors caught in **Verification** is less than errors found in Validation. | Cost of errors caught in **Validation** is more than errors found in Verification. |
| It is basically manually checking the of documents and files like requirement specifications etc. | It is basically checking of developed program based on the requirement specifications documents & files. |
| Evaluation Items:  Plans, Requirement Specs, Design Specs, Code, Test Cases | The actual product/software |
| |  | | --- | | Activities: Reviews, Walkthroughs, Inspections | |  | | Testing |