| **Parameters** | **Quality Assurance (QA)** | **Quality Control (QC)** |
| --- | --- | --- |
| **Objective** | QA focuses on providing assurance that the quality requested will be achieved. | QC focuses on fulfilling the quality requested. |
| **Technique** | QA is the technique of managing quality. | QC is the technique to verify quality. |
| **Involved in which phase?** | QA is involved during the development phase. | QC is not included during the development phase. |
| **Program execution is included?** | QA does not include the execution of the program. | QC always includes the execution of the program. |
| **Type of tool** | QA is a managerial tool. | QC is a corrective tool. |
| **Process/ Product-oriented** | QA is process oriented. | QC is product oriented. |
| **Aim** | The aim of quality assurance is to prevent defects. | The aim of quality control is to identify and improve the defects. |
| **Order of execution** | Quality Assurance is performed before Quality Control. | Quality Control is performed after the Quality Assurance activity is done. |
| **Technique type** | QA is a preventive technique. | QC is a corrective technique. |
| **Measure type** | QA is a proactive measure. | QC is a reactive measure. |
| **SDLC/ STLC?** | QA is responsible for the entire[software development life cycle](https://www.geeksforgeeks.org/software-development-life-cycle-sdlc/). | QC is responsible for the [software testing life cycle](https://www.geeksforgeeks.org/software-testing-life-cycle-stlc/). |
| **Activity level** | QA is a low-level activity that identifies an error and mistakes that QC cannot. | QC is a high-level activity that identifies an error that QA cannot. |
| **Focus** | Pays main focus is on the intermediate process. | Its primary focus is on final products. |
| **Team** | All team members of the project are involved. | Generally, the testing team of the project is involved. |
| **Aim** | QA aims to prevent defects in the system. | QC aims to identify defects or bugs in the system. |
| **Time consumption** | QA is a less time-consuming activity. | QC is a more time-consuming activity. |
| **Which statistical technique was applied?** | [Statistical Process Control (SPC)](https://www.geeksforgeeks.org/statistical-process-control/) statistical technique is applied to Quality Assurance. | Statistical Quality Control (SQC) statistical technique is applied to Quality Control. |
| **Example** | [Verification](https://www.geeksforgeeks.org/differences-between-verification-and-validation/) | Validation |