

SOFTWARE

Engineer



A software engineer is a professional who designs, develops, tests, and maintains software applications and systems. They use engineering principles and programming languages to create software solutions that meet user needs.

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Content

- What is a Software Engineer?
- Software Processes
- SDLC (Software Development Life Cycle)
- SDLC Models

Software Engineering Tutorial

Software Engineering Tutorials deliver basic and advance concept of software engineering. Software Engineering Tutorial is designed to help beginner and professional both.

Software Engineering provides a standard procedure to design and develop a software. Our Software Engineering contains all the topic of software Engineering like:

- Software Engineering models
- SLDC (Software Development Life Cycle)
- Requirement Engineering
- Software Design Tools
- Software Design Strategy
- Software Design Levels
- Software Project Management Tools
- Software Testing levels
- Software Testing Approaches
- aQuality Assurance Vs. Quality Control
- Manual Testing
- Software Maintenance
- Software Re-engineering

Software Engineer is Product of two words, **Software** and **Engineer**.

The Software is a collection of integrated programs. Software subsists of Carefully-Organized instructions and **Code** written by developers on any of various particular computer languages.

Engineering is the application of Scientific and practical knowledge to **invent, design, build, maintain, and improve frameworks, testing, processes etc.**

Why is Software Engineering Required?

Software Engineering is required due to the following reasons :

- Manage Large Software
- Improve Scalability
- Cost Management
- Manage the dynamics nature of software
- Better Quality Management.

Need of Software Engineering :

The necessity of Software Engineer appears because of a higher rate of progress in user requirements and environment on which the program is working :

- **Huge Programming** : It is simpler to manufacture a wall than to a house or building, similarly, as the measure of programming become extensive Engineering has to step to give it a scientific process.
- **Adaptability** : if the software procedure were not based on scientific and engineering ideas, it would be re-create new software than to scale an existing one.
- **Cost management** : As the hardware industry has demonstrated it's skills and huge manufacturing has let down the cost of computer and electronic hardware. But the cost of programming remains high if the proper process is not adapted.
- **Dynamica Nature** :