SDLC
Software/System Development Life Cycle

Requrement Analysis

Design

Implementation

Testing

Evalution

Why Learn the Software Development Process (SDLC)?
Learning the Software Development Life Cycle (SDLC) is essential for a Software Engineer because it provides the professional framework to build high-quality, reliable software efficiently.

Area of Benefit	Key outcome
Structure & Control	Breaks down complex projects into manageable phases (Planning, Coding, Testing, Deployment).
Quality Assurance	Embeds rigorous testing early on, resulting in fewer bugs and reduced rework costs.
Risk Mitigation	Allows for early identification and resolution of architectural or design flaws.
Team Collaboration	Standardizes communication and defines clear roles and responsibilities.
Professionalism	Enables the application of appropriate methodologies (like **Agile** or **Scrum**) to meet business goals.

In short: SDLC transforms you from a coder into an **Engineer** capable of building and maintaining successful, reliable systems that meet customer needs.