

This document outlines the relationships between three important software concepts: Structured Programming, Structured Program, and Software Development Life Cycle(SDLC).

Structure Programming S/W Development Methodology

- 1) Problem Statement
- 2) Do Analysis --> Blueprint(Flowchart)
- 3) Code via flowchart
- 4) Test Code
 - Module Testing - does the program work?
 - System Testing - does the program meet requirements?
- 5) Document Solution

Structure Program

a program is "structured" iff its logic may be expressed as combinations of the three basic logic flow forms:

- Sequence - stepwise execution
- Iteration - looping or repetition
- Selection - branching or choose one of multiple

Software Development Life Cycle(SDLC)

defines the phases of software from concept to retirement.

- 1) Problem Statement
- 2) Do Analysis --> Software Requirements
 - Systems Analyst will
 - 1) Interview
 - 2) Observe
 - 3) Role Play

----- **S/A disappears** -----

- 3) Software Design Phase
 - Preliminary Design(logical design - "what does S/W do"?)
 - Detailed Design(physical design - "how is it done?")

- 4) Test Code
 - Module Testing - does the program work?

- 5) Acceptance Testing (performed by ITG)
 - ITG - Independent Test Group

----- **S/A returns** -----

- 6) Environment Integration
 - Training Issues *****Important****
 - Installation
 - 1) Abrupt
 - 2) Gradual
 - 3) Parallel (\$\$\$\$expensive\$\$\$)
- 7) Maintenance (ongoing, continuous)