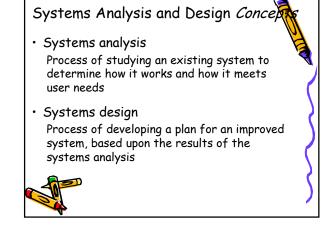
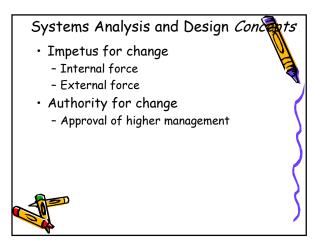
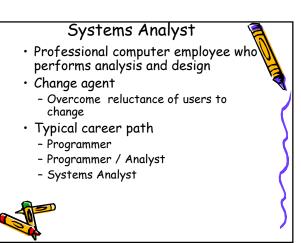


System

- organized set of related components established to accomplish certain task
 Natural
- Planned and placed by people
- Computer system
 - A system that has computers as one of its components





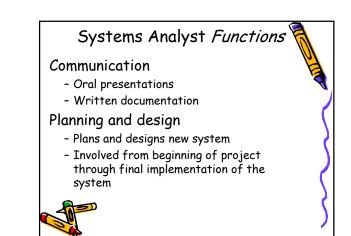


Systems Analyst Functions

Coordination

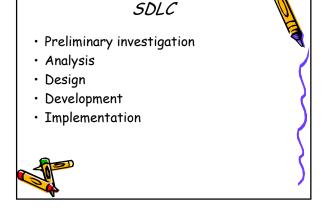
- Schedules and system-related tasks
- Personnel
 - Manager
 - Programmers
 - Users
 - Vendors of computer equipment
 - Mail room employees
 - Contractors





Systems Analyst Personal Quality

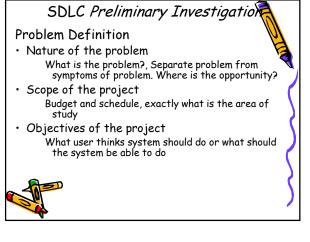
- Analytical mind
- Good communication skills
- Self-discipline
- Self-direction
- Organizational skills
- Creativity
- Ability to work without tangible results

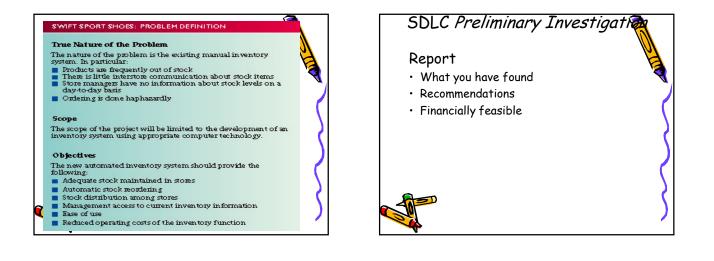


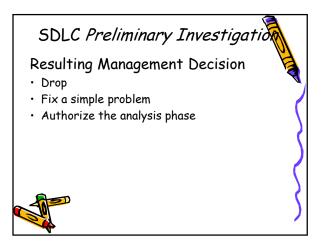
Systems Development Life Cyc

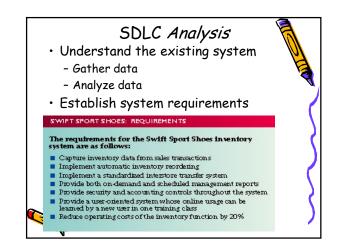
Preliminary Investigation

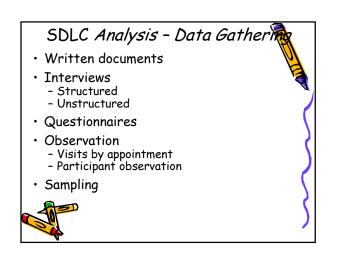
- Feasibility study / System survey
- Determine the problem
- Describe the problem
- Understand management decisions – Organizational chart
 - Informal hierarchy
- Produces rough plan and what to do

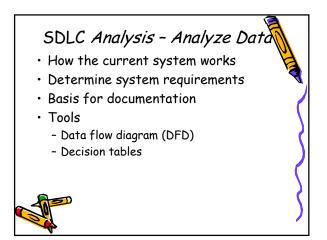


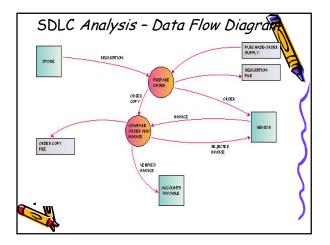


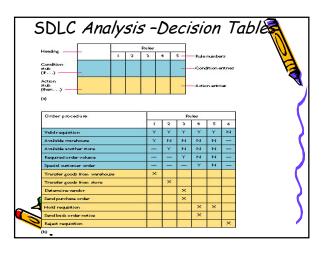






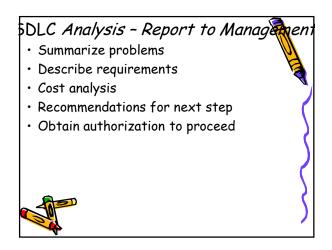


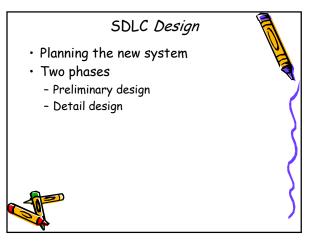


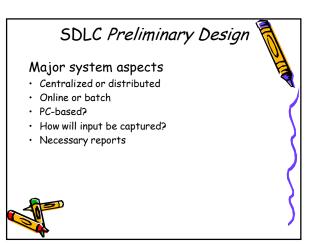


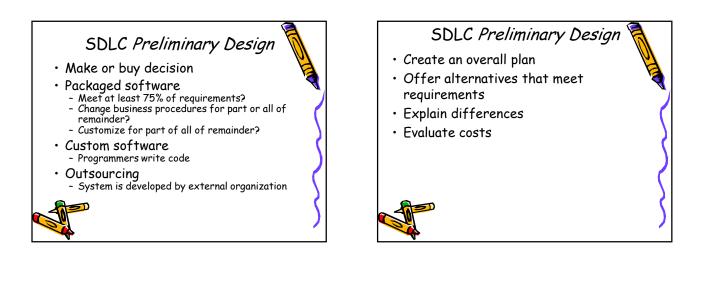
SDLC analysis - System Requirements

- Detailed list of things the system must be able to do
- Design is based upon system requirements
- Agreement upon requirements is needed before proceeding



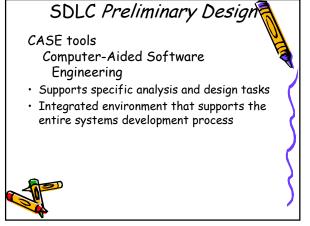






SDLC Preliminary Design

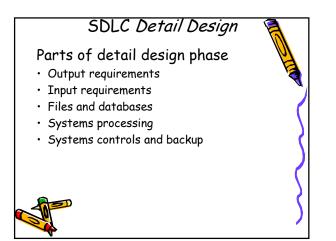
- Build a prototype
 - Limited working system of subset
- Does not need true functionality
 Output looks like anticipated system output
- Working model that can be modified and fine-tuned
 - Uses high-level software tools CASE
 - Best for small-scale systems



SDLC Preliminary Design

Presentation

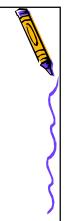
- All alternatives
- Selected plan
- Prototype of the system
- Obtain authorization to proceed

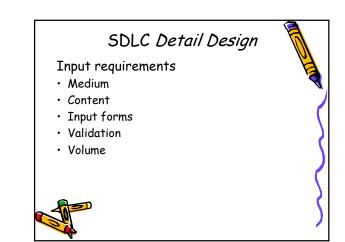


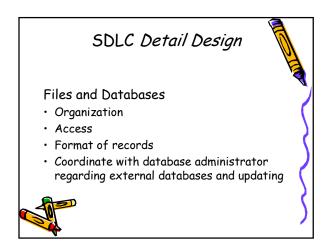
5/21/2014

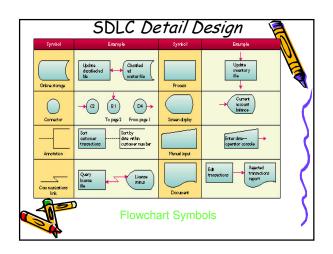
SDLC Detail Design

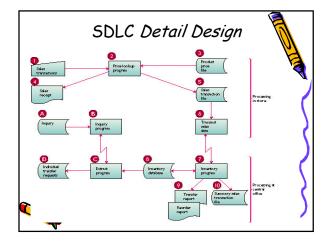
- Output requirements
- Medium
- Type of reports
- Contents

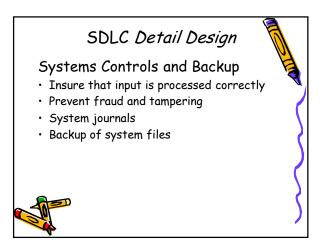








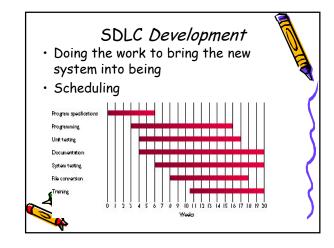


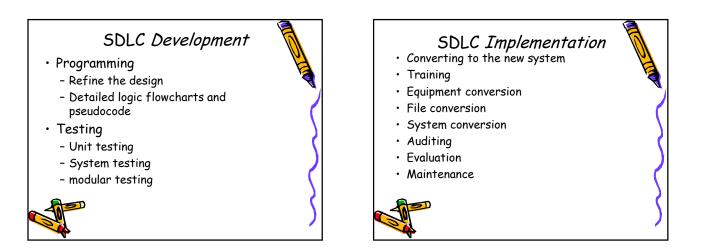


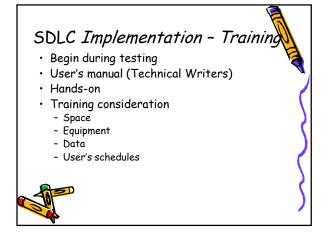
SDLC Detail Design

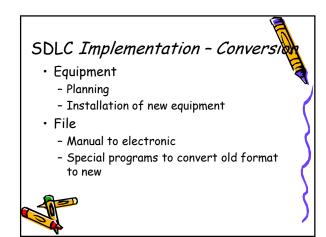
- Report to Management
- Detailed design specifications report
- Presentation
- Obtain authorization to proceed







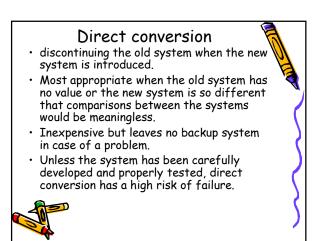




SDLC Implementation - Conver

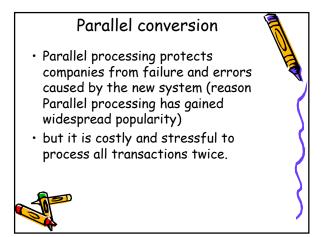
- System
 - Direct conversion
 - Phased conversion
 - Pilot conversion
 - Parallel conversion





Parallel conversion:

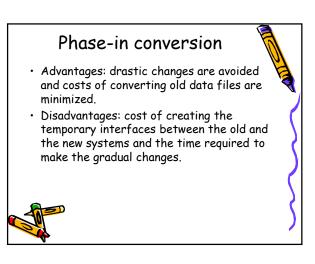
- means operating the old system and the new system simultaneously (parallel) for a period of time.
- The outputs of the two systems could then be compared, difference reconciled and problems with the new system corrected.
- After a period of time when the new system has proved itself, the old
 Type m could be discontinued.



Phase-in conversion

- the old system is gradually replaced by elements of the new system.
- For example a company could first implement its inventory, then its disbursements system, then its sales collection system and so forth until the whole system is functional.





Modular conversion:

- a new system is implemented in only a portion of the organization, such as one of the company"s locations.
- For example a shop could install its new POS system at one of its stores using a direct, parallel or phase-in approach.



Modular conversion: Advantage: localizes conversion problems and allows users and operators to be trained in a live environment. Disadvantages: long conversion time and the need for interfaces between the old and new systems, which coexist until all locations have been converted.



- Audit trail
- Trace output back to source



