Lesson 12

Systems Development Life Cycle

What is Systems Development Life Cycle (SDLC)?

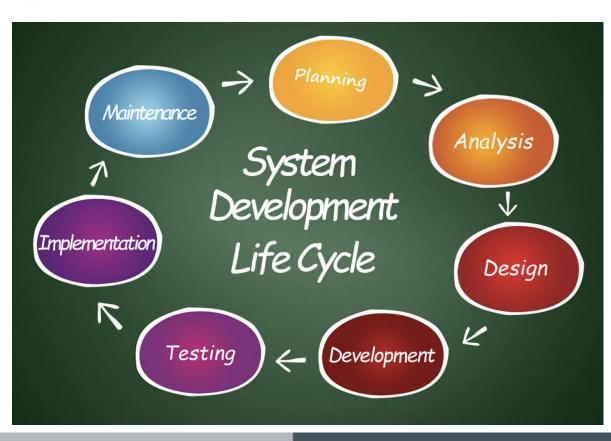
- Structured process for system development
- Ensures consistency and quality

Why SDLC Matters in Field Projects

- Helps manage project phases
- Promotes documentation and planning
- Reduces risk of failure

Phases of SDLC

- Planning
- Analysis
- Design
- Development
- Testing
- Implementation
- Maintenance



Planning Phase

- Define scope and objectives
- Conduct feasibility study
- Identify timeline and resources

Systems Analysis

- Gather user requirements
- Document current problems
- Analyze needs and constraints

Design Phase

- Logical design: inputs, outputs, data flows
- Physical design: architecture, hardware, interface

Development Phase

- Write code
- Build database
- Integrate components

Testing Phase

- Unit and system testing
- Bug fixing
- User acceptance testing (UAT)

Implementation / Deployment

- Train users
- Migrate data
- Go live

Maintenance & Support

- Monitor performance
- Apply updates
- Fix issues

SDLC Models

- Waterfall
- Agile
- Spiral
- Iterative

Applying SDLC in Field Projects

- Structure your report using SDLC
- Document each phase clearly
- Use SDLC terms to describe your process

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Q&A

