Systems Analysis and design - 2

Slide Adapted from:

Jeffrey A. Hoffer , Joey F. George, Joseph S. Valacich (Modern Systems Analysis and Design, 7th Edition, Pearson Prentice Hall)

Chapter 13 System Implementation

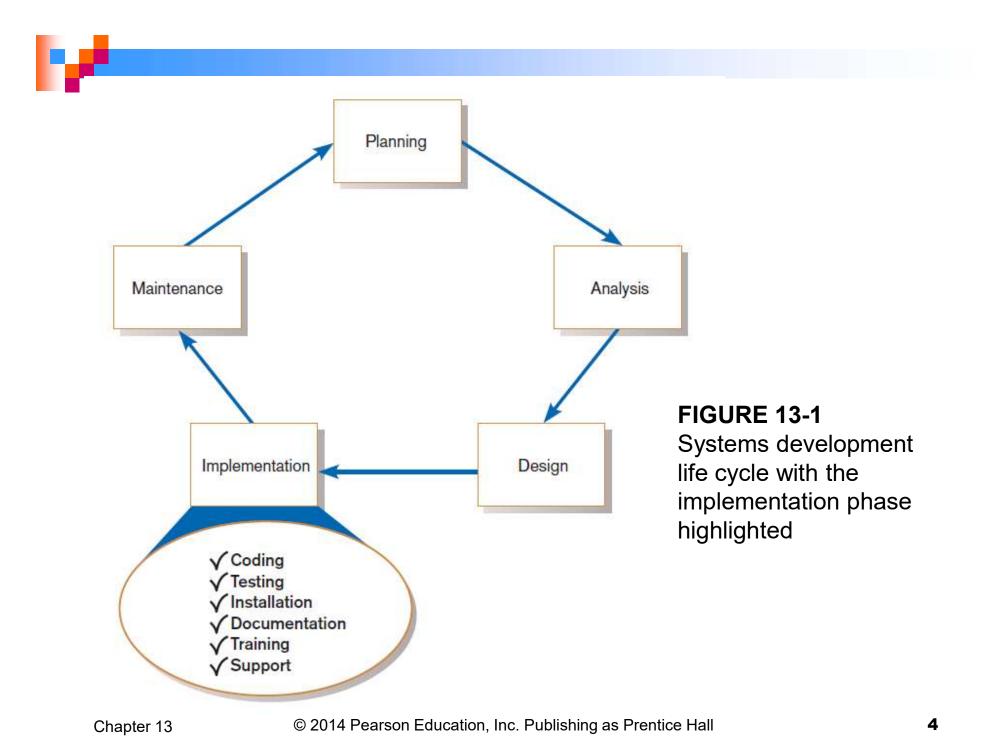
Learning Objectives

- Describe the process of coding, testing, and converting an organizational information system and outline the deliverables and outcomes of the process.
- Prepare a test plan for an information system.
- Apply four installation strategies: direct, parallel, singlelocation, and phased installation.
- List the deliverables for documenting the system and for training and supporting users.
- Compare the many modes available for organizational information system training, including self-training and electronic performance support systems.

Chapter 13

Learning Objectives (Cont.)

- Discuss the issues of providing support for end-users.
- Explain why system implementation sometimes fails.
- Describe the threats to system security and remedies that can be applied.
- Show how traditional implementation issues apply to electronic commerce applications.



System Implementation

- Six major activities:
 - Coding
 - Testing
 - Installation
 - Documentation
 - Training
 - □ Support

System Implementation (Cont.)

Purpose:

- To convert final physical system specifications into working and reliable software
- To document work that has been done
- To provide help for current and future users

The Process of Coding, Testing, and Installation

Coding

- Physical design specifications are turned into working computer code.
- Testing
 - Tests are performed using various strategies.
 - □ Testing is performed in parallel with coding.
 - Installation
 - □ The current system is replaced by a new system.

TABLE 13-2 Deliverables for Documenting the System, Training, and Supporting Users

1. Documentation	3. User Training Modules
a. System documentation	a. Training materials
b. User documentation	 Computer-based training aids
2. User Training Plan	4. User Support Plan
a. Classes	a. Help desk
b. Tutorials	b. Online help
	c. Bulletin boards and other support mechanisms

Software Application Testing

- A master test plan is developed during the analysis phase.
- During the design phase, unit, system and integration test plans are developed.
- The actual testing is done during implementation.
- Written test plans provide improved communication among all parties involved in testing.

Summary

In this chapter you learned how to:

- Describe the process of coding, testing, and converting an organizational information system and outline the deliverables and outcomes of the process.
- Prepare a test plan for an information system.
- Apply four installation strategies: direct, parallel, singlelocation, and phased installation.
- List the deliverables for documenting the system and for training and supporting users.

Summary (Cont.)

- Compare the many modes available for organizational information system training, including self-training and electronic performance support systems.
- Discuss the issues of providing support for end-users.
- Explain why system implementation sometimes fails.
- Describe the threats to system security and remedies that can be applied.
- Show how traditional implementation issues apply to electronic commerce applications.