# Systems Analysis and design - 2

Slide Adapted from:

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

### Chapter 13 System Implementation

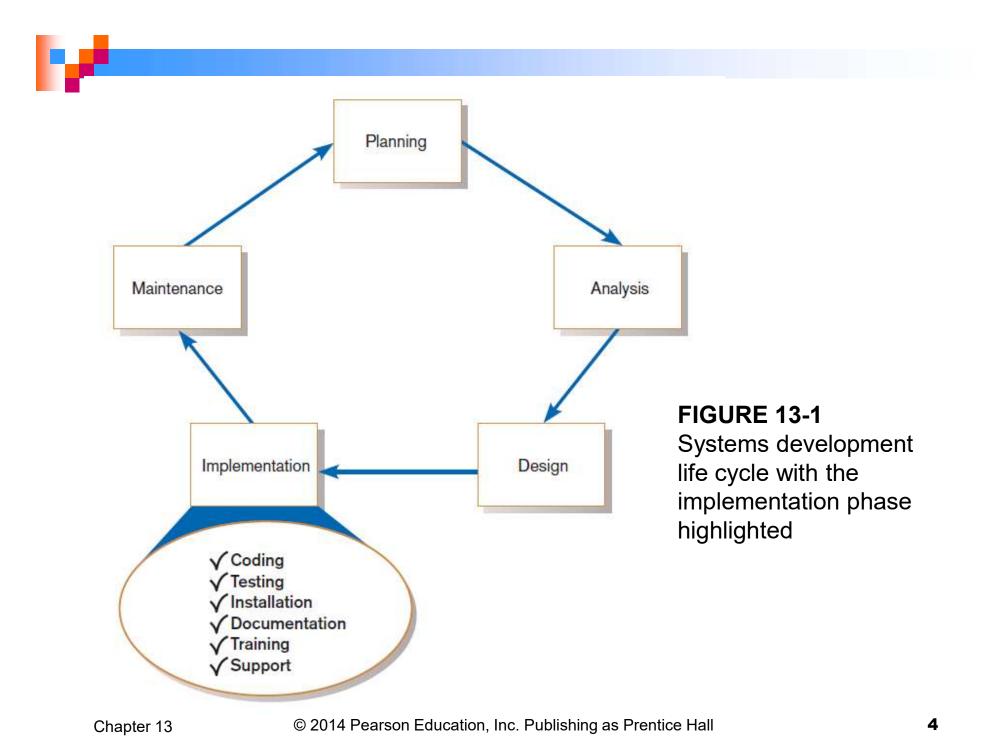
## Learning Objectives

- 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	<ul> <li>Computer-based training aids</li> </ul>
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.