EASTERN ARIZONA COLLEGE
Linux System Administration
Course Design
2011-2012

Course Information

Division	Business
Course Number	CMP 230
Title	Linux System Administration
Credits	3
Developed by	James McBride
Lecture/Lab Ratio	2 Lecture/2 Lab

Transfer Status

ASU	NAU	UA
Elective Credit	Pending Evaluation	Pending Evaluation

Activity Course	No
CIP Code	11.0100
Assessment Mode	Pre/Post Test/CompTIA Linux+ Exam (100 Questions/100 Points)
Semester Taught	Fall
GE Category	None
Separate Lab	No
Awareness Course	No
Intensive Writing Course	No

Prerequisites

None

Educational Value

The purpose of this course is to cover basic multi-user operating system theory, practice, using Linux. Linux is being chosen as a desktop operating system, as well as a server.

Description

This course covers system architecture; Linux installation and package management; GNU and Unix commands; devices, Linux file systems, and the File System Hierarchy Standard; command line work, maintenance tasks.

Supplies

TestOut LabSim. Online content obtained in class; requires additional fee in lieu of book. Access to a networked personal computer.

Competencies and Performance Standards

1. Demonstrate an understanding of the Linux operating system in society.

Learning objectives

What you will learn as you master the competency:

a. In class discussion will focus on why Linux is used.

b. Identification of different Linux distributions.

Performance Standards

Competence will be demonstrated:

- by oral discussion.
- by tests.
- by labs.

Criteria - Performance will be satisfactory when:

- learner identifies various Linux distributions and implementation facts in oral discussion.
- learner completes labs demonstrating proper Linux identification.
- learner completes tests covering Linux distributions and uses.

2. Demonstrate an understanding of Linux operating system file systems and organization.

Learning objectives

What you will learn as you master the competency:

a. In class discussion will focus on the elements of Linux file systems and file organization.

b. Installing and configuring Linux operating system.

Performance Standards

Competence will be demonstrated:

- by oral discussion.
- by tests.
- by labs.

Criteria - Performance will be satisfactory when:

- learner expresses knowledge of Linux file organization and systems in oral discussion.
- learner completes labs demonstrating proper file system installation and organization.
- learner completes tests covering file system installation and organization terms.

3. Demonstrate an understanding of Linux system organization and corresponding commands.

Learning objectives

What you will learn as you master the competency:

a. In class discussion will focus on the elements of the Linux operating system and the commands used to manage the system.

b. Implementing, configuring and modifying the Linux system through Linux system commands.

Performance Standards

Competence will be demonstrated:

- by oral discussion.

- by tests.
- by labs.

Criteria - Performance will be satisfactory when:

- learner expresses knowledge of the Linux operating system and system commands in oral discussion.
- learner completes labs demonstrating proper Linux operating systems use and implementation.
- learner completes tests covering Linux operating systems terms.

Types of Instruction

Classroom Presentation

In-class Discussion

On Campus Laboratory

Grading Information

Grading Rationale

Each instructor has the flexibility to develop evaluative procedures within the following parameters.

1. The Post Test will represent 10% of the course grade.
2. Course learning activities shall represent 90% of the course grade.

Grading Scale

A 90-100%

B 80-89%

C 70-79%

D 60-69%

F 0-59%