Hello, and welcome!

Are you ready to take on new professional challenges? One way to do that is to learn Linux. This open-source operating system (OS) has become an in-demand foundation in the IT industry. Since its creation, Linux has evolved. Now it runs on various hardware, from phones to supercomputers. Each Linux OS uses the Linux kernel, which manages hardware resources. By learning Linux, you will discover how the OS software and command line work together. This set-up offers users unlimited access to their computers’ capabilities.

Along the way, you will also develop other skills. You will learn to communicate technical information to non-technical people. You will also learn to ask effective questions as you begin new projects. And you will hone your skills in negotiation and time management.

We invite you to take a minute to learn about the course by reviewing the following information. This way, you will be better able to understand the expectations of the course as a whole. Then you can determine how to manage your time and efforts as you navigate through it.

Apply yourself and explore these concepts.
We’re here to help you every step of the way!
Course Description and Competencies

What to Expect
This course will give you a well-rounded, foundational understanding of Linux. You will learn through a variety of videos, knowledge checks, labs, and practice exams. You will demonstrate competence by successfully completing the LPI Linux Essentials 010 certification exam.

This course covers the following competencies:

The learner identifies the fundamentals of open-source software.

The learner develops resources for data access and security.

You must earn the LPI Linux Essentials 010 certification to pass the course.

Linux Essentials (010-160)

Linux Essentials is the first certification on the Linux Professional Institute (LPI) path. Once you receive this certification, you are Linux Essentials certified for life.

Wondering what will be on the exam? We’ve tried to balance this course to reflect the percentages of subject matter in the exam. That way, you will learn the appropriate level of detail about each topic to comfortably answer the exam questions. Those exam questions are weighted by domain area as follows:

1. The Linux Community and a Career in Open Source
2. Finding Your Way on a Linux System
3. The Power of the Command Line
4. The Linux Operating System
5. Security and File Permissions

You can learn more about the exam objectives by visiting the Linux Professional Institute site.

Your enrollment in this WGU Academy course includes your first two attempts at passing the certification exam.
Course Outline

Upon completion of this lesson, you will be able to:

1. **Selecting an OS**
   - Differentiate between major operating systems.
   - Identify major open-source applications and their uses.
   - Identify required life cycle management elements for major operating systems.

2. **Principles**
   - Clarify how the “open source” philosophy influenced Linux and its licensing.
   - Describe cloud technology in a Linux environment.
   - List uses of Linux.

3. **Command Line**
   - Execute commands for various help systems.

4. **Files & Data**
   - Manage home and system directories.
   - Apply Bourne-Again Shell (BASH) built-in commands.
   - Apply basic regular expressions.

5. **Scripts**
   - Apply scripting syntax.
   - Differentiate variables and identify the use of loops in performing repetitive tasks.
   - Execute commands to display output and exit status codes from scripts.

6. **Hardware**
   - List computer hardware for desktop and servers.
   - Differentiate between partitions, their naming conventions, and their uses.
   - Identify different types of computer storage.

7. **Security**
   - Differentiate between types of users on a system using commands and system files.
   - Identify users logged into a system.
   - Apply and manipulate special permissions on files.

8. **Connections**
   - Identify basic network and hosting commands.
Technology Requirements

We want to be sure you have the tools to succeed! Review the Computer System and Technology Requirements to learn about the technology you’ll need. If you have questions about your setup, contact support@academy.wgu.edu.

Key Contacts

Your Fellow Learners

Check out the Linux Foundations Lobby in the course site! In this online community, you can ask questions and explore ideas. You can connect with your fellow learners. When you use this site, you will realize that other learners may have the same questions you have. You can all benefit from learning together!

Technical Support

If you encounter technical issues, be sure to contact the Help Desk. Just submit a Support Request for assistance.

Program Support

Do you have questions about your account? Our Academy Support Team has answers. They can help with billing, switching courses, and other requests. You can contact them at (888) 320-0540 or support@academy.wgu.edu.

Accommodations

WGU Academy provides compliant and accessible learning experiences. If you require accommodation, please contact us at the start of the course. You can email StudentAffairs@academy.wgu.edu or call (888) 320-0540. We are committed to ensuring that all students with disabilities have equal access to WGU Academy’s services and materials. We strive to use best practices for accessibility. Our goal is to conform to existing U.S. laws. These include the Americans with Disabilities Act and Section 504 and Section 508 of the Rehabilitation Act. Our learning management system (LMS) platform is Open edX. Open edX’s commitment to accessible content is published on their Website Accessibility Policy.