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## Linux Essentials 1.6

**(Exam code 010-160)**

### Overview:

Linux adoption continues to rise world-wide as individual users, government entities and industries ranging from automotive to space exploration embrace open source technologies. This expansion of open source in enterprise is redefining traditional Information and Communication Technology (ICT) job roles to require more Linux skills. Whether you're starting your career in open source, or looking for advancement, independently verifying your skill set can help you stand out to hiring managers or your management team.

The Linux Essentials certificate also serves as a great introduction to the more complete and advanced Linux Professional certification track.

### Prerequisites

There are no prerequisites for this certificate

### Requirements:

Passing the Linux Essentials 010 exam. The Linux Essentials exam contains 40 questions and must be completed within 60 minutes.

### To receive the Linux Essentials certificate the candidate must:

- Have an understanding of the Linux and open source industry and knowledge of the most popular open source Applications;
- Understand the major components of the Linux operating system, and have the technical proficiency to work on the Linux command line.
- Have a basic understanding of security and administration related topics such as user/group management, working on the command line, and permissions.

# Objectives

1. The Linux Community and a Career in Open Source
  - 1.1 1.1 Linux Evolution and Popular Operating Systems (weight: 2)
  - 1.2 1.2 Major Open Source Applications (weight: 2)
  - 1.3 1.3 Open Source Software and Licensing (weight: 1)
  - 1.4 1.4 ICT Skills and Working in Linux (weight: 2)
  
2. Finding Your Way on a Linux System
  - 2.1 2.1 Command Line Basics (weight: 3)
  - 2.2 2.2 Using the Command Line to Get Help (weight: 2)
  - 2.3 2.3 Using Directories and Listing Files (weight: 2)
  - 2.4 2.4 Creating, Moving and Deleting Files (weight: 2)
  
3. The Power of the Command Line
  - 3.1 3.1 Archiving Files on the Command Line (weight: 2)
  - 3.2 3.2 Searching and Extracting Data from Files (weight: 3)
  - 3.3 3.3 Turning Commands into a Script (weight: 4)
  
4. The Linux Operating System
  - 4.1 4.1 Choosing an Operating System (weight: 1)
  - 4.2 4.2 Understanding Computer Hardware (weight: 2)
  - 4.3 4.3 Where Data is Stored (weight: 3)
  - 4.4 4.4 Your Computer on the Network (weight: 2)
  
5. Security and File Permissions
  - 5.1 5.1 Basic Security and Identifying User Types (weight: 2)
  - 5.2 5.2 Creating Users and Groups (weight: 2)
  - 5.3 5.3 Managing File Permissions and Ownership (weight: 2)
  - 5.4 5.4 Special Directories and Files (weight: 1)