

Syllabus

GENERAL INFORMATION

Course Title: IT Fundamentals

Code: CCNA1000

Contact Hours: 43 Hours

Academic Term: Feb 7, 2022 to March 14, 2022

Professor: Joel Vargas Ramos

E-Mail: jvargas@passwordpr.com

COURSE DESCRIPTION

Successful students will have the knowledge required to assemble components based on customer requirements, install, configure and maintain devices, PCs and software for end users, understand the basics of networking and security / forensics, property and safely diagnose, resolve and document common hardware and software issues, apply troubleshooting skills, provide appropriate customer support, and understand the basics of virtualization, desktop imaging, and deployment.

OBJECTIVES

This course will teach the student the fundamental principles of installing, configuring, and troubleshooting PC, mobile, printer, and networking device hardware and help you to progress a career in PC support. It will prepare the student take the CompTIA FC0-U51 exam by providing 100 coverage of the objectives and content examples listed.

THEMATIC CONTENT

The following concepts and operations are discussed below:

I. Core Hardware Component (Introduction)

Unit 1.1 Introducing Internal Components

Unit 1.2 Exploring Motherboards, Processors and Memory

Unit 1.3 Exploring Storage and Expansion Devices

Unit 1.4 Exploring Power and Cooling

II. Peripherals and Connectors

Unit 2.1 Audio, Video and Printers

Unit 2.2 Input Devices

Unit 2.3 External Storage and other Connectors\

III. Troubleshooting Method and Operating Systems

Unit 3.1 Operating System Fundamentals

Unit 3.2 Navigating an Operating System

PO Box 5000-462

14 Calle Carro Suite 2 San Germán, PR 00683

www.passwordtech.org

Tel. (787) 892-7947

- IV. Networking Technologies and Wireless Routers**
 - Unit 4.1 Connection Types and Features
 - Unit 4.2 Network Connectivity Essentials
 - Unit 4.3 Setting Up a SOHO Router
- V. Network Sharing and Storage**
 - Unit 5.1 Local Network Sharing
 - Unit 5.2 Web Based Sharing and Access
- VI. Security Threats**
 - Unit 6.1 Understanding Hacking
 - Unit 6.2 Understanding Security Threats
- VII. Software Applications**
 - Unit 7.1 Common Software Applications and File Types
 - Unit 7.2 Software Management Best Practices
- VIII. Security Best Practices**
 - Unit 8.1 Computer and Network Security Best Practices
 - Unit 8.2 Internet Security Best Practices
 - Unit 8.3 Exploring Storage and Expansion Devices
 - Unit 8.4 Exploring Power and Cooling
- IX. Computer Support and Backups**
 - Unit 9.1 Basic Computer Support Concepts
 - Unit 9.2 Computer Backups
- X. Environmental and Safety Concepts**
 - Unit 10.1 Safe interactions with Computers

Forums:

- Forum 1: Prueba la velocidad y potencia de tu PC con UserBenchmark
- Forum 2: Los Peores y más curiosos Ataques a dispositivos IOT
- Forum 3: El Dilema de las Redes Sociales
- Forum 4: Trabajo Futuro con gafas de Realidad Virtual
- Forum 5: Vulnerabilidades en Google Chrome

Evaluation Criteria

CRITERIA	Grade total
1 Mid-Term Exam	100
1 Final Exam	100
Quizzes	100
Foros 1-5	100
Total	400

EDUCATIONAL RESOURCES

- Docter, Q. (2019). *CompTIA IT Fundamentals Study Guide: Exam FC0-U61*. (2nd Edition). Indianapolis, Indiana. Sybex.
- <http://passwordtech.edu20.org>

NOTES

Reasonable Accommodation: Any student who requires reasonable accommodation must request them at the beginning of the course or as soon acquire the required knowledge that through the Professor in charge and be notifying the Academic Director.

Honesty, fraud, plagiarism: Dishonesty, fraud, plagiarism and any other inappropriate behavior about the student's academic performance, constitute violations of the catalog of the institution, its Rules of Conduct and Duties of Student. Major infractions, as provided in the catalog may result in the suspension of the institution for a defined time or permanent expulsion as stipulated in the Rules of Conduct and Duties of Student.