



**Password Technical College**  
44 Calle Dr. Santiago Veve  
San Germán, PR 00683  
<http://passwordtech.edu20.org>

## **SYLLABUS**

### **GENERAL DESCRIPTION**

Título Curso: CompTIA A+ Core 1 Exam Review

Código: CCNR 1050

Horas Contacto: 55

Término Académico: April 21, 2022 to May 10, 2022

Profesor: Joel Vargas Ramos

Correo electrónico: [jvargas@passwordpr.com](mailto:jvargas@passwordpr.com)

### **COURSE DESCRIPTION**

This Class is aimed at developing skills and abilities necessary to assemble components based on customer requirements. Install, configure and maintain devices, PCs and software for end users, understand the principles of network systems and security / forensic analysis, properly and safely diagnose, fix and document common hardware and software problems while applying troubleshooting skills. Successful candidates will also provide appropriate customer service; understand the basics of image virtualization, processing, and deployment. This course is aimed at obtaining the CompTIA A + certification.

### **OBJETIVES**

Configure, differentiate, install, identify, explain and compare through physical and virtual laboratories. The objectives corresponding to the CompTIA A + 220-1001 certification exam in hardware, network systems, laptops, printers and operations procedures respectively. At the end of the course, the student will obtain the necessary practice to master the skills established by the information technology industry.

## **SPECIFIC OBJECTIVES**

### **Lesson 1: Configuring and Troubleshooting Networks**

- Configure Network Connection Settings
- Install and Configure SOHO Networks
- Configure SOHO Network Security
- Configure Remote Access
- Troubleshoot Network Connections
- Install and Configure IOT Devices

### **Lesson 2: Implementing and Troubleshooting Laptops**

- Configure Client-Side Virtualization
- Cloud Computing Concepts

### **Lesson 3: Supporting and Troubleshooting Laptops**

- Use Laptop Features
- Install and Configure Laptop Hardware
- Troubleshoot Common Laptop Issues

### **Lesson 4: Supporting and Troubleshooting Mobile Devices**

- Mobile Devices Types
- Connect and Configure Mobile Device Accessories
- Support Mobile Apps

### **Lesson 5: Installing, Configuring and Troubleshooting print devices**

- Maintain laser Printers
- Maintain Inkjet Printers
- Maintain Impact, Thermal and 3D Printer
- Install and Configure Printers
- Install and Configure imaging devices

Days	Modules	Works
Class #1 <b>Module 1</b>	<b>Lesson 1: Configuring and Troubleshooting Networks</b> <ul style="list-style-type: none"> <li>• Configure Network Connection Settings</li> <li>• Install and Configure SOHO Networks</li> </ul>	<ul style="list-style-type: none"> <li>• Pre-Test Comprehension</li> </ul>
Class #2 <b>Module 1</b>	<ul style="list-style-type: none"> <li>• Configure SOHO Network Security</li> <li>• Configure Remote Access</li> </ul>	<ul style="list-style-type: none"> <li>• Homework 1</li> </ul>
Class #3 <b>Module 1</b>	<ul style="list-style-type: none"> <li>• Troubleshoot Network Connections</li> <li>• Install and Configure IOT Devices</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz 1</li> </ul>
Class #4 <b>Module 2</b>	<b>Lesson 2: Implementing and Troubleshooting Laptops</b> <ul style="list-style-type: none"> <li>• Configure Client-Side Virtualization</li> <li>• Cloud Computing Concepts</li> </ul>	<ul style="list-style-type: none"> <li>• Lab 1</li> </ul>
Class #5 <b>Module 3</b>	<b>Lesson 3: Supporting and Troubleshooting Laptops</b> <ul style="list-style-type: none"> <li>• Use Laptop Features</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz 2</li> </ul>
Class #6 <b>Module 3</b>	<ul style="list-style-type: none"> <li>• Install and Configure Laptop Hardware</li> <li>• Troubleshoot Common Laptop Issues</li> </ul>	<ul style="list-style-type: none"> <li>• Lab 2</li> </ul>
Class #7 <b>Module 4</b>	<b>Lesson 4: Supporting and Troubleshooting Mobile Devices</b> <ul style="list-style-type: none"> <li>• Mobile Devices Types</li> </ul>	<ul style="list-style-type: none"> <li>• Mid-Term Exam</li> </ul>

Class #8 <b>Module 4</b>	<ul style="list-style-type: none"> <li>• Connect and Configure Mobile Device Accessories</li> <li>• Support Mobile Apps</li> </ul>	<ul style="list-style-type: none"> <li>• Homework 2</li> </ul>
Clase #9 <b>Module 5</b>	<p><b>Lesson 5: Installing, Configuring and Troubleshooting print devices</b></p> <ul style="list-style-type: none"> <li>• Maintain laser Printers</li> </ul>	<ul style="list-style-type: none"> <li>• Quiz 3</li> </ul>
Clase #10 <b>Module 5</b>	<ul style="list-style-type: none"> <li>• Maintain Inkjet Printers</li> <li>• Maintain Impact, Thermal and 3D Printer</li> </ul>	<ul style="list-style-type: none"> <li>• Post-Test</li> </ul>
Clase #11 <b>Module 5</b>	<ul style="list-style-type: none"> <li>• Install and Configure Printers</li> <li>• Install and Configure imaging devices</li> </ul>	<ul style="list-style-type: none"> <li>• Final Exam</li> </ul>



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## EVALUATION CRITERIA

<b>CRITERIA</b>	<b>Grade total</b>
1 Mid-Term Exam	100
1 Final Exam	100
Quizzes	100
Homeworks and Labs	100
Total	400

\*4 Points less for each absence.

\*Assignments are always due in class on the day designated. You are responsible for any work lost due to technical problems, etc. Late papers will lose a letter grade for each day that they are late. Any exceptions must be properly documented and discussed in advance for an extension to be arranged.

## EDUCATIONAL RESOURCES

- Pengelly, J. (2020). The Official CompTIA A + Core 1 Student Guide (Exam 220-1001). Ebook CompTIA. Downers Grove, Illinois
- Neo LMS (2021). CompTIA A+ Core 1. *passwordtech.edu20*.

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## NOTES

- **Reasonable Accommodation:** Any student who requires reasonable accommodation must request them at the beginning of the course or as soon as they acquire the required knowledge 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.