**SYLLABUS**

**GENERAL DESCRIPTION**

Título Curso: CompTIA A+ Core 2 Exam Review

Código: CCNR 1060

Horas Contacto: 55

Término Académico: July 22, 2021 to August 10, 2021

Profesor: Joel Vargas Ramos

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**COURSE DESCRIPTION**

This course is aimed at preparing the student to review, clarify questions, take practice exams in order to take and pass the CompTIA A + 220-1002 exam. In addition, effective study strategies and techniques will be demonstrated to take the test in an environment aligned with the administration environment of a real exam through a Pearson Vue examination center. This course is aimed at obtaining the second exam required for the CompTIA A + certification.

**OBJETIVES**

To obtain CompTIA A + certification, you must pass two exams: 220-1001 and 220-1002. CompTIA A + 220-1002 measures the skills required for a basic IT professional. The students will have the necessary knowledge to:

• Installation of components according to customer requirements
• Install, configure and maintain devices, PC and software for end users
• Understand the basic concepts of networking and security / forensics
• Correctly diagnose, resolve and document common hardware and software problems

• Apply problem solving skills
• Provide adequate customer support
• Understand the basics of virtualization, desktop imaging and implementation

**SPECIFIC OBJECTIVES**

 **Lesson 1: Security Concepts**

* + Logical Security Concepts
	+ Threats and Vulnerabilities
	+ Physical Security Measures

 **Lesson 2: Securing Workstation and Data**

* + Implement Security Best Practices
	+ Implement data protection
	+ Protect Data During Incident Response

 **Lesson 3: Troubleshooting, Workstation Security Issues**

* + Detect, Remove and Prevent Malware
	+ Troubleshoot Common Workstation Security Issues

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

* + Secure Mobile Devices
	+ Troubleshoot Mobile Device Issues

 **Lesson 5: Implementing Operational Procedures**

* + Use Appropiate Safety Procedures
	+ Environment Impacts and Controls
	+ Create and Maintain Documentation
	+ Use Basic Change Management Best Practice
	+ Implement Disaster Prevention and Recovery Methods
	+ Basic Scripting Concepts
	+ Professionalism and Communication

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| --- | --- | --- |
| Days | Modules | Works |
| Class #1**Module 1** | **Lesson 1: Security Concepts*** + Logical Security Concepts
 | * Pre-Test Comprehension
 |
| Class #2**Module 1** | * + Threats and Vulnerabilities
 |  |
| Class #3**Module 1** | * + Physical Security Measures
 | * Quiz 1- Operating System
 |
| Class #4**Module 2** | **Lesson 2: Securing Workstation and Data*** Implement Security Best Practices
 | * Lab 1- Configure Firewall Settings
 |
| Class #5**Module 2** | * + Implement data protection
	+ Protect Data During Incident Response
 | * Quiz 2- OS Administration
 |
| Class #6**Module 3** | **Lesson 3: Troubleshooting, Workstation Security Issues*** + Detect, Remove and Prevent Malware
	+ Troubleshoot Common Workstation Security Issues
 | * Lab 2: Explore Control Panel Categories
 |
| Class #7**Module 4** | **Lesson 4: Supporting and Troubleshooting Mobile Devices*** + Secure Mobile Devices
 | * Mid-Term Exam
 |
| Class #8**Module 4** | * + Troubleshoot Mobile Device Issues
 | * Lab 3: Work with Task Manager
 |
| Clase #9**Module 5** | **Lesson 5: Implementing Operational Procedures*** + Use Appropiate Safety Procedures
	+ Environment Impacts and Controls
	+ Create and Maintain Documentation
 | * Quiz 3- Network
 |
| Clase #10**Module 5** | * + Create and Maintain Documentation
	+ Use Basic Change Management Best Practice
	+ Implement Disaster Prevention and Recovery Methods
 | * Post-Test
 |
| Clase #11**Module 5** | * + Basic Scripting Concepts
	+ Professionalism and Communication
 | * Final Exam
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**Laboratories:**

* Lab 1- Configure Firewall Settings
* Lab 2: Explore Control Panel Categories
* Lab 3: Work with Task Manager

**EVALUATION CRITERIA**

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| --- | --- |
| **CRITERIA** | **Grade total** |
| 1 Mid-Term Exam | 100 |
| 1 Final Exam | 100 |
| Quizzes | 100 |
| Homeworks and Labs | 100 |
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| 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 2 Student Guide (Exam

220-1002). Ebook CompTIA. Downers Grove, Illinois

* Neo LMS (2021). CompTIA A+ Core 2. *passwordtech.edu20*.

<https://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.