

Module 3

Hello everyone! **Module 3: Disassembly and Power, Memory, and Storage Devices** is ready for you to begin. This module covers essential hardware components and troubleshooting techniques.

What You'll Learn This Week

- How to prevent static electricity, RFI, and EMI from harming or interfering with a computer
- The tools needed to work on computers
- How to take apart a computer and put it back together
- How to perform basic voltage and continuity checks
- How to install, upgrade, or replace a power supply
- Tips for good written communication
- Different memory technologies
- How to plan for a memory installation or upgrade
- How to install and remove memory modules
- How to optimize memory for Windows platforms
- Best practices for troubleshooting memory problems
- The benefits of teamwork
- Basic storage terms
- About SATA, eSATA, SSD, and SSHD technologies
- How to install and configure storage devices, including RAID
- How to fix storage device problems
- How to keep a drive healthy
- How to create and troubleshoot RAID issues
- How to create and use Windows Storage Spaces
- Effective phone communication

CompTIA Exam Objectives Covered

This module addresses numerous key exam objectives:

- **1201-3.2:** Summarize basic cable types and their connectors, features, and purposes
- **1201-3.3:** Compare and contrast RAM characteristics
- **1201-3.4:** Compare and contrast storage devices
- **1201-3.5:** Given a scenario, install and configure motherboards, central processing units (CPUs), and add-on cards
- **1201-3.6:** Given a scenario, install the appropriate power supply

- **1201-5.1:** Given a scenario, troubleshoot motherboards, RAM, CPUs, and power
- **1201-5.2:** Given a scenario, troubleshoot drive and RAID issues
- **1202-1.1:** Explain common operating system (OS) types and their purposes
- **1202-1.2:** Given a scenario, perform OS installations and upgrades in a diverse environment
- **1202-1.3:** Compare and contrast basic features of Microsoft Windows editions
- **1202-1.4:** Given a scenario, use Microsoft Windows operating system features and tools
- **1202-1.5:** Given a scenario, use the appropriate Microsoft command-line tools
- **1202-2.9:** Compare and contrast common data destruction and disposal methods
- **1202-3.1:** Given a scenario, troubleshoot common Windows OS issues
- **1202-4.4:** Given a scenario, use common safety procedures
- **1202-4.5:** Summarize environmental impacts and local environment controls
- **1202-4.7:** Given a scenario, use proper communication techniques and professionalism

Required Materials (Worth 10% of Participation Grade)

uCertify Ebook Readings and Videos:

- **Lesson 5:** Disassembly and Power
- **Lesson 6:** Memory
- **Lesson 7:** Storage Devices

Remember: Completing these readings and videos counts toward your 10% participation grade. Make sure to select in **Content** and complete in uCertify, grade will be sent automatically from uCertify!

Assignments Due This Week

- **uCertify Chapter 5 Quiz** - Complete after reading Lesson 5
- **uCertify Chapter 6 Quiz** - Complete after reading Lesson 6
- **uCertify Chapter 7 Quiz** - Complete after reading Lesson 7
- **uCertify Labs:**
 - Disassembly and Power Labs (see **Content** for specific labs required)
 - Memory Labs (see **Content** for specific labs required)
 - Storage Devices Labs (see **Content** for specific labs required)
- **Discussion 2 Part 1** - Initial post due this Module/Week

Tip: This module has three lessons - pace yourself accordingly!

Important Reminders:

- Check the course calendar on the syllabus for all Module 3 due dates
- This module covers three lessons - plan your time accordingly
- Reach out if you have any questions about the material or assignments

You're making great progress!
Questions? Post in the Q&A discussion forum or send me an e-mail.
Professor Vargas