Course Number:  CTIA 6375

Course Title:  CompTIA A+ Certification

Course Description:  Instructor-led, hands-on training in preparation for CompTIA A+ hardware and software exams.

Suggested Course Prerequisite(s):  Familiarity with Windows operating system

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Student Learning Outcomes:  Demonstrate preparedness for CompTIA A+ exams by knowledge of:
1. Hardware components
2. Operating System fundamentals
3. Operational Procedures
4. Network Technologies
5. Troubleshooting hardware components & system-wide issues

Certification Notes:  Prepares students for CompTIA A+ exams.

Next course recommendation:  CompTIA Net+ Certification

Refund Policy:  Please refer to www.collin.edu/ce/inforegistrar.html for our refund policy. No refunds after the start time of the first class.

Americans with Disabilities Act:  Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student’s responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current Collin Student Handbook for additional information.

Course Sessions:  Listed are guidelines to indicate all topics that will be covered during your course. Do not plan your personal calendar based on these sessions. Your instructor will give you a calendar for your class that will indicate specific topics, assignments, and days.

Lesson Plan – by week or session:

Session 1:
- CH01 CompTIA A+ Path of the PC Tech
- CH02 CompTIA A+ Operational Procedures
- CH03 PPT_CompTIA A+ The Visible Computer
- NISGTC Lab 1 - Examining Computer Hardware
- Hands-On - 1 - Identifying Components

Session 2:
- Ch04 Microprocessors
• Ch05 RAM
• CH06 BIOS
• CH07 Motherboards
• Hands-On - 2 - Configuring / Viewing System BIoS
  o Set Boot Order
  o View System Information: memory installed, processor information
• Hands-On 3 - Removing & Replacing a Motherboard

**Session 3:**
• Ch08 Power Supplies
• Ch09 Hard Drive Technologies
• CH10 Implementing Hard Drives
• Hands-On 4 - Partitioning a Hard Drive / Installing Windows 7 from within Windows Installer
• Hands-On 5 - Install Windows Server on second partition
• NISGTC Lab 7 - Disk Maintenance and Recovery

**Session 4:**
• CH11 Essential Peripherals
• CH12 Building a PC
• CH13 Windows Under the Hood
• NISGTC Lab 2 - PC Operating Systems

**Session 5:**
• CH14 Users, Groups & Permissions
• CH15 Maintaining and Optimizing Operating Systems
• CH16 Working with the Command Line Interface
• NISGTC Lab 6 - Troubleshooting
• NISGTC Lab 8 - Command Prompt Tools
• Hands-On 5.5 - Break Physical PC, Have students troubleshoot
• IDF Tour (second floor)

**Session 6:**
• CH17 Troubleshooting Operating Systems
• CH18 Virtualization
• CH19 Display Technologies
• NISGTC Lab 10 - Control Panel
• NISGTC Lab 3 - Networking Essentials

**Session 7:**
• CH20 Essentials of Networking
• CH21 Local Area Networking
• CH22 Wireless Networking
• CH23 The Internet
• Hands-On 6 -- Factory Resetting Router / Configuring
• Hands-On 7 - Manually configure 2 PC's TCP/IP Configuration

**Session 8:**
• CH24 Portable Computing
• CH25 Understanding Mobile Devices
• CH26 Care and Feeding of Mobile Devices
• Hands On 5.8 -- Replace Following on Laptop: LCD Screen, Memory, Keyboard, Hard drive
• NISGTC Lab 4 - Printers

**Session 9:**
• CH27 Printers and Multifunction Devices
• CH28 Securing Computers
• NISGTC Lab 5 - Security
• NISGTC Lab 9 - Remote Access (Remote Desktop)
• NISGTC Lab 11 - Desktop Customization

**Method of Evaluation:** Unless otherwise stated, course completion is evaluated on the basis of attendance. Students must be in attendance 90% of each course in a certificate series for successful completion and to earn a certificate as specified.