Course Title: CompTIA A+ Certification

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

Course Prerequisite(s):
Familiarity with Windows operating system

Course Objectives:
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

Textbook(s):
Publisher: McGraw Hill
ISBN 978-1259589515

Certification Notes:
Prepares students for CompTIA A+ exams

Next Class Possibilities:
CompTIA Net+ Certification

Lesson Plan – by week or session
Session 1:
- CH01 CompTIA A+ Path of the PC Tech
- CH02 CompTIAA+ 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 BIOSs
  - Set Boot Order
  - 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
**Course Sessions:** listed are a guideline 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.

**Method of Evaluation:** Unless otherwise stated, course completion is evaluated on the basis of attendance. Students must be in attendance 90% of the class time in order to be considered a successful completer of the course.

Students must be in attendance 90% of each course in a certificate series for successful completion and to earn a certificate as specified.

Students must complete all courses (core and no. of elective courses needed) to complete a certificate series within two years from start date of the first course taken.

**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-G200 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current Collin Student Handbook for additional information.

[http://www.collin.edu/studentresources/personal/studenthandbook.aspx](http://www.collin.edu/studentresources/personal/studenthandbook.aspx)