Fundamentals and Essentials
Curriculum Update
Fundamentals / Essentials Courses

Agenda

- Course Pathways
- Curriculum Updates
  - PNIE
  - IT Essentials I & II
  - Java / UNIX
  - Web Design
Current Curriculum Paths

- **CAREERS**
  - Enterprise Networking
  - Small and Medium Business Networking
  - Network Installer
  - Basic IT Support
  - System Admin

- **UNIVERSITY**
  - CCNP
    - Advanced Routing
    - Remote Access
    - Multilayer Switching
    - Troubleshooting

- **COLLEGE**
  - CCNA
    - Basics
    - Routing
    - Switching
    - WANs
  - Security
  - Wireless

- **HIGH SCHOOL**
  - FUNDAMENTALS / ESSENTIALS
    - Panduit NIE
    - ITE I
    - ITE II
    - Java
    - UNIX

- **CURRENT CURRICULUM PATHS**
  - Network Installer
  - Basic IT Support
  - System Admin
Curriculum Updates

- Panduit Network Infrastructure Essentials
- IT Essentials I: PC Hardware and Software
- IT Essentials II: Network Operating Systems
- Fundamentals of UNIX
- Fundamentals of Java Programming
- Fundamentals of Web Design
Panduit Network Infrastructure Essentials

Agenda

• Course Description
• Curriculum Updates
• Certification
PNIE Course Description

• Designed for students interested in the physical aspects of voice and data network cabling and installation

• Prepares students for an entry-level position in the cabling industry

• Instructor-led, 70-hour course comprises about 30 hours of instruction and 40 hours of hands-on lab tasks

• Hands-on, lab-oriented

• Stresses documentation, design, and installation issues, as well as lab & on-the-job safety
PNIE Curriculum v2.0 Updates

- Includes Intl standards (ISO/CENELEC/ITU-T)
- Fiber is not in main body of curriculum
  - Separate bundle
  - Keeps cost down
- New cost calculator available
  - More flexible pricing
  - Order equipment bundles according to class size
- Latin American Spanish translation scheduled for August 2006 release
Panduit Certified Technician (PCT)

- Panduit plans to roll out its new certification in selected countries in 2006
- Certification exam
  - Written (online) and hands-on portions
  - Focused on copper
- PNIE course is the only approved curriculum by which to prepare for the PCT certification
Panduit Certified Technician (PCT)

• Note: PCT testing may not be feasible for all students

• For the first year, Panduit will target their certification efforts toward post-secondary students located near Panduit Certified Installers (PCIs)

• This focus will match immediately-employable students to available jobs within PCIs

• Exams no charge to students who either:
  
  Are currently enrolled and on track to graduate
  
  Have completed the course within the past 3 years
Panduit Certified Technician (PCT)

• PNIE Academies will have the opportunity to become PCT Testing Centers, provided they:
  Currently offer the PNIE course
  Are located within a 50-mile (80-km) radius of a PCI
  Have purchased the course equipment bundle from Panduit
  Can pass a site audit by a Panduit field representative

• Current interested PNIE Academies send Academy Name, PNIE instructor name, and e-mail to netacad-pct@external.cisco.com

• Panduit will notify Academies if they meet the criteria
IT Essentials I & II

Agenda

• Program Update
• Course Descriptions
• Curriculum Updates
• Certifications and Vouchers
IT Essentials Curriculum Name Change

- For the past four years, Hewlett-Packard has worked with Cisco Systems to sponsor the development and deployment of the IT Essentials curricula.

- These courses have been an important part of building student success in the Cisco Networking Academy Program.

- We are pleased to announce that Cisco will now directly sponsor IT Essentials I and IT Essentials II.

- As a result, we will remove the HP name and logo from the course title and content.
IT Essentials Curriculum Name Change

- Cisco is committed to offering the existing IT Essentials courses,
  
  IT Essentials I: PC Hardware and Software
  
  IT Essentials II: Network Operating Systems

- with full support and functionality as currently implemented.

- In addition, Cisco plans to update the IT Essentials I: PC Hardware and Software curriculum to align with the new CompTIA A+ certification.
IT Essentials I: PC Hardware and Software

- Overview of Information Technology, includes an Intro to Networking
- Main focus is on PC maintenance, safety, and troubleshooting
- In-depth exposure to personal computer hardware, and desktop operating systems.
- Prepares students for CompTIA’s A+ exams.
- French Version 3.1 released in February 2005
- Version 3.1 Exam refresh posted in January 2006 -- focuses exams on job skills of a Computer Technician. Questions were eliminated that only cover the minutia in the course.
IT Essentials I and CompTIA’s A+

• CompTIA press release about the A+ revision
  Major revision to this certification
  Available late Q306 (late September of 2006)

• 2006 CompTIA A+ Certification
  Still requires the passing of two exams
  Focuses more on job skills
  Hardware and software components in all exams
  Added security, laptops and Soft Skills
IT Essentials I and CompTIA’s A+

- Different certification paths, aimed at different job markets
- To become CompTIA A+ certified under 2006 exams
- You must pass the A+ Essentials exam.
- PLUS you must pass any of the three job-skills exams:
  - 220-602 - IT Technician (Field Service Technician)
  - 220-603 - Remote Support (Help Desk Technician)
  - 220-604 - Depot Technician (Bench Technician)
IT Essentials II: Network Operating Systems

• Introduction to multi-user, multitasking networking operating systems

• Hands-on, lab-oriented course overviews the characteristics of Linux and Windows NT, 2000, and XP operating systems

• Students will learn about installation procedures, security issues, backup procedures, and remote access

• IT Essentials II: NOS v3 AND Fundamentals of UNIX course map to CompTIA Linux+
• This package was developed to assist instructors in delivering the Linux labs from the HP IT Essentials II: NOS course.

• Many schools use a Windows OS environment. A run-from-CD version of Linux allows a computer to be booted into the Linux OS without affecting the host machine's hard drive.

• We have chosen Knoppix v3.9 to validate these labs.
IT Essentials II Knoppix Lab Map

• The package includes the following:
  
  A spreadsheet that maps each Linux lab to an alternate Knoppix lab and provides instructions for completion
  
  An Instructor Lab Manual that includes a short Knoppix instructor guide and Knoppix labs with answers
  
  A Student Lab Manual that contains Knoppix labs without answers

• Download on Tools page and Class Home page:
  
  HP IT Essentials II Ver. 3.0 Knoppix Labs Map v4
Certifications and Vouchers

- You must successfully complete/pass the required course(s) that correspond to a designated CompTIA certification exam:

<table>
<thead>
<tr>
<th>IT Essentials I: PC Hardware and Software</th>
<th>CompTIA A+ (vouchers are issued for both exams)</th>
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<tbody>
<tr>
<td>Fundamentals of UNIX and IT Essentials II (both courses)</td>
<td>CompTIA Linux+ exam</td>
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</table>
Certifications and Vouchers

• Check CompTIA’s site http://www.comptia.org/certification/general_information/exam_pricing.aspx

• for full retail exam pricing; and then check the voucher for your discount.

• Note: CompTIA offers a larger discount than the Academy discount to members of their Education to Career (E2C) program

  Fee-based membership program, not available in all countries

  Check to see if your institution is an E2C member

  If so, student must enter the institution's CompTIA membership number when requesting a voucher to receive the higher E2C discount
## Certifications and Vouchers

- CompTIA’s E2C site
  
  [http://www.comptia.org/sections/e2c/us.aspx](http://www.comptia.org/sections/e2c/us.aspx)

<table>
<thead>
<tr>
<th>E2C Membership Categories</th>
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<tr>
<td>Individual High School Partnership</td>
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<tr>
<td>Individual Community, Technical or 4-year College Partnership</td>
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<tr>
<td>Tech-Prep Consortium (High Schools and Community Consortium Partnership)</td>
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<tr>
<td>Single School District Partnership</td>
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Agenda

• Program Update
• Course Descriptions
• Certifications
Java/UNIX Course Histories

• Course development for Fundamentals of UNIX and Fundamentals of Java Programming began in 2001 under the sponsorship of Sun Microsystems
• Sun’s sponsorship and contract ended in May 2004
• At that time, the NetAcad Program announced a retirement date for these two courses of July 2006
Courses are still valuable:

- Java course content was revised in August 2004
- UNIX course content focuses on UNIX commands that are still relevant in the IT workplace
- UNIX course, together with IT Essentials II: NOS, prepares students for the CompTIA Linux+ exam
Announcement of Java/UNIX Continuation

Java/UNIX Announcement in July 2005

• Curricula and assessments will be available for as long as they remain relevant and valuable to our Academies

• Full classroom functionality is available through Academy Connection

  No course curricular content revisions are planned.

  However, assessment refreshes will still occur if valid issues are reported through the Help link
Fundamentals of Java Programming

• 70-hour course on JAVA language's object oriented technologies to solve business problems

• Students will learn how to create classes, objects, and applications using the language

• Topics include the language fundamentals, the Java language API (application programming interface)

• Updated content to include the language technology additions introduced in Java™ 2 Platform, Standard Edition 5.0 (J2SE 5.0)
Fundamentals of Java Programming - Labs

• Module 1 introduces navigation and use of text editor in three different environments: Windows, Macintosh, Unix/Linux

• Provides the foundation for the labs to be completed using any of the three platforms

• Three Software packages required
  
  **All No Cost Downloads**
  
  Java 2 Standard Edition J2SE
  
  J2SE 1.4 Documentation.
  
  BlueJ IDE Development Tool
Java Advanced Placement (AP) Instructor Guide

• Provides a roadmap for U.S. AP Instructors to adapt Java v2.0 to meet their AP exam objectives

• AP is a program designed and run by the U.S. College Board, which uses an assessment to create a standard for which high school students can gain college credit

• Includes mapping of the online course to the AP Computer Science objectives for "A" and "AB" exams

• Contains additional AP specific content and labs (4 additional chapters), including the Marine Biology Study

• Posted to the Java Tools area
Fundamentals of UNIX v2.0

- 70-hour course on the basics of the UNIX operating system
- Teaches students how to use the UNIX operating system with either Linux or Solaris
- Introduces Shell Programming
- Labs focus on CLI (Command Line Interface) and support both Linux and Solaris users using any GUI (GNOME, KDE or CDE)
Certifications and Vouchers

Fund of Java helps to prepare students for

- Sun Certified Java2 Programmer v1.4
- Voucher supplied for access to discounted (50%) exam

Fund of UNIX helps to prepare students for

- CompTIA’s Linux + certification exam (with IT II v3.0)
- Sun’s Sys Admin I course
Fundamentals of Web Design

Agenda

• Program Update
Fundamentals of Web Design

• Adobe-sponsored Fundamentals of Web Design (FWD) course began development in 2001
• Adobe’s sponsorship and contract ended early 2004
• At that time, we announced a retirement date for this course of July 2006
• We plan to retire this course July 31, 2006
• Current classes in this course can continue unchanged until the class end date
Fundamentals of Web Design

• Once retired, FWD will continue to appear in the following situations:
  Available for all class activities for current classes, including exam activation and gradebook entries
  Viewable from the class home page

• However, the course will no longer be available for the following functions:
  NOT viewable in the Course Materials area on Academy Connection
  NOT downloadable from Academy Connection
  NOT available for creating new classes
World Organization of Webmasters (WOW)

• Worked closely with NetAcad team, sponsoring contests for Web Design students and developing a certification

• Created their own Academy program, featuring a vendor-neutral curriculum with certification options

• Created a webpage to provide Cisco Academies with information on alternatives to and a progression from the Fundamentals of Web Design course

    http://www.joinwow.org/wowacademy/index_cisco.html

• Not part of the Cisco Networking Academy Program. Therefore, Academies need to evaluate the information presented to determine if it meets your needs.
Q and A