

IT Essentials 7.0

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IT Essentials 7.0

- IT Essentials w NetAcad
- 7.0 Funkcjonalności i korzyści
- Informacje uzupełniające



IT Essentials w programie NetAcad

Umiejętności
wymagane na
podstawowych
stanowiskach IT

Ponad 2.4 miliona
Słuchaczy na całym
świecie



Dostępny w 21
językach

2.4M



6 wersji od chwili
wprowadzenia - 17
lat temu

Version 7 - najlepsza z dotychczasowych wersji!

Aktywna nauka



Rozszerzony zakres



Lepsze rezultaty kształcenia





Aktywna nauka

A power supply includes several different connectors, as shown in here. These connectors are used to power various internal components such as the motherboard and disk drives. The connectors are "keyed" which means that they are designed to be inserted in only one orientation.

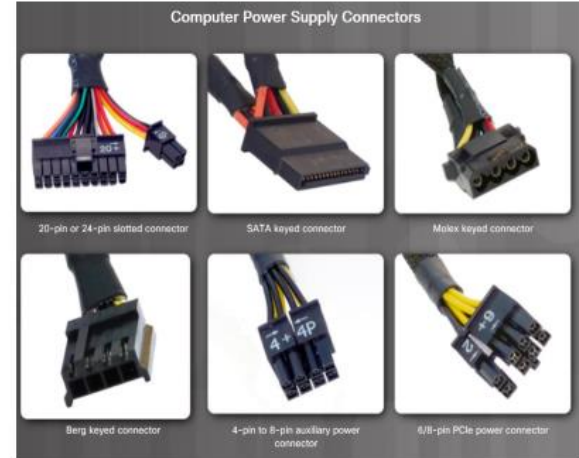
Use table format in PPT to display the following information. Make pdf available via button to user.

Connector	Description
A 20-pin or 24-pin slotted connector	<ul style="list-style-type: none">Connects to the motherboardThe 24-pin connector has two rows of 12 pins eachThe 20-pin connector has two rows of 10 pins each
SATA keyed connector	<ul style="list-style-type: none">Connects disk drivesConnector is wider and thinner than a Molex connector
Molex keyed connector	<ul style="list-style-type: none">Connects hard drives, optical drives, or other devices
Berg keyed connector	<ul style="list-style-type: none">Connect to legacy floppy drivesSmaller than a Molex connector
4-pin to 8-pin auxiliary power connector	<ul style="list-style-type: none">Connector has two rows of two to four pins and supplies power to different areas of the motherboardThe auxiliary power connector is the same shape as the main power connector but smaller
6/8-pin PCIe power connector	<ul style="list-style-type: none">Connector has two rows of three to four pins and supplies power to internal components



Connectors

A power supply includes several different connectors, as shown in here. These connectors are used to power various internal components such as the motherboard and disk drives. The connectors are "keyed" which means that they are designed to be inserted in only one orientation.



Click each image below of more information on common power supply connectors.



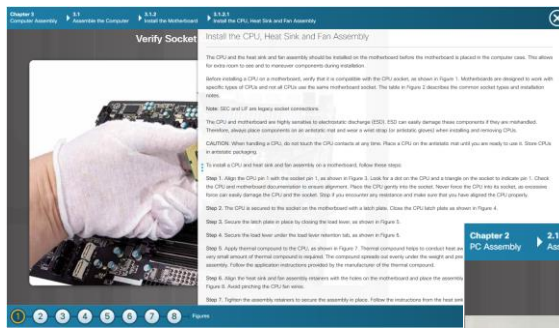


Aktywna nauka

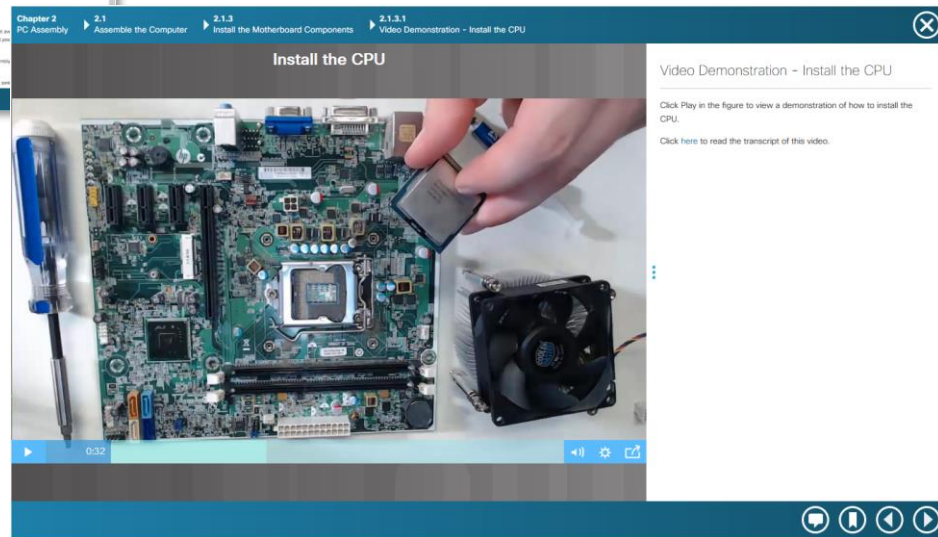
Więcej
materiałów
video/ mniej
tekstu

- 4-5 minutowe wideo
- Ponad 75 filmów

Version 6



Same Topic Version 7





Aktywna nauka

Interaktywne ćwiczenia

Chapter 8 Printers > 8.1 Common Printer Features > 8.1.2 Printer Connections > 8.1.2.2 Check Your Understanding - Printer Connections

Check Your Understanding - Printer Connections

Instructions
Match each connector image to its corresponding port image. Click Check to see the answers. Click Reset to try again.

Connector Image	Port Image
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Chapter 1 Introduction to Personal Computer Hardware > 1.2 PC Components > 1.2.9 Input Devices > 1.2.9.5 Check Your Understanding: Input Devices

Check Your Understanding: Input Devices

1. What was the first type of input device?
 - Facial Recognition Scanners
 - Stylus
 - Mouse
 - Touch screen
 - Keyboard
 - Printer
2. What is the most recently invented input device in common use at the moment?
 - Facial Recognition Scanners
 - Stylus
 - Mouse
 - Touch screen
 - VR headset
 - Microphone
3. A company is building a new secure data center and wants to limit access to authorized personnel. What would be the best type of input device to use to limit access?
 - Biometric device
 - Keyboard
 - VR headset
 - Barcode scanner
 - Magstripe reader

Ponad 90 interaktywnych ćwiczeń i quizów służących samodzielnej ocenie rezultatów kształcenia.

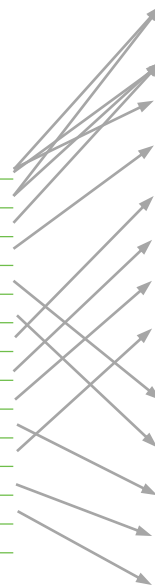


Rozszerzony zakres

Poprawiona kolejność

Version 6 Topics

1. Introduction to the Personal Computer System
2. Introduction to Lab Procedures and Tool Use
3. Computer Assembly
4. Overview of Preventive Maintenance
5. Windows Installation
6. Windows Configuration and Management
7. Networking Concepts
8. Applied Networking
9. Laptops and Mobile Devices
10. Mobile, Linux, and OS X Operating Systems
11. Printers
12. Security
13. The IT Professional
14. Advanced Troubleshooting



Wersja 7

1. Introduction to Personal Computer Hardware
2. PC Assembly
3. Advanced Computer Hardware
4. Preventive Maintenance and Troubleshooting
5. Networking Concepts
6. Applied Networking
7. Laptops and other Mobile Devices
8. Printers
9. Virtualization and Cloud Computing
10. Windows Installation
11. Windows Configuration
12. Mobile, Linux, and OS X Operating Systems
13. Security
14. The IT Professional

NEW!



Rozszerzony zakres

Dostosowanie do certyfikacji

- IT Essentials 7.0 zawiera tematy znajdujące się w najnowszej wersji egzaminów certyfikacyjnych CompTIA's A+ Core1 oraz Core2.
- Zawiera egzaminy praktyczne i ćwiczenia wspierające przygotowanie do nowych egzaminów certyfikacyjnych.
- Z czasem kurs będzie aktualizowany tak, aby mógł przygotowywać także do innych egzaminów certyfikacyjnych.



Rozszerzony zakres

Opisy rozdziałów

	Section	Goals/Objectives
Chapter 1	Introduction to Personal Computer Hardware	Select the appropriate computer components to build, repair, or upgrade personal computers.
Chapter 2	PC Assembly	Install components to build, repair, or upgrade personal computers.
Chapter 3	Advanced Computer Hardware	Install and configure components to upgrade a computer.
Chapter 4	Preventive Maintenance and Troubleshooting	Perform Troubleshooting on personal computers.
Chapter 5	Networking Concepts	Explain how computers communicate on a network.
Chapter 6	Applied Networking	Configure devices to communicate on a network.
Chapter 7	Laptops and Other Mobile Devices	Explain how to troubleshoot Laptops and other Mobile Devices.
Chapter 8	Printers	Install a printer to meet requirements.
Chapter 9	Virtualization and Cloud Computing	Describe virtualization and cloud computing.
Chapter 10	Windows Installation	Install Windows operating systems.
Chapter 11	Windows Configuration	Perform management and maintenance of Windows operating systems.
Chapter 12	Mobile, Linux, and OSX Operating Systems	Explain how to configure, secure, and troubleshoot mobile, Mac, and Linux operating systems.
Chapter 13	Security	Implement basic host, data, and network security.
Chapter 14	The IT Professional	Explain the roles and responsibilities of the IT Professional.

Przygotowanie do
CompTIA A+
Core1 exam

Przygotowanie do
CompTIA A+
Core2 exam



Rozszerzony zakres

Nowe tematy

Hardware

- USB-C specifications
- Synchronization with cars
- SSO for mobile environment
- Managed and unmanaged switches
- Cloud-based network controllers
- IoT device installation and configuration
- RFID, Zigbee, Z-wave, 3G, 4G, 5G, and LTE
- IPv6 link-local addresses
- DHCP reservations
- Wireless Mesh Networks (WMN)
- QR scanners, VR headsets, and signature pads
- 3D printers and plastic filament
- Off-site email applications
- Cloud file storage services
- Virtual application streaming/cloud-based applications
- Virtual desktop
- Virtual NIC

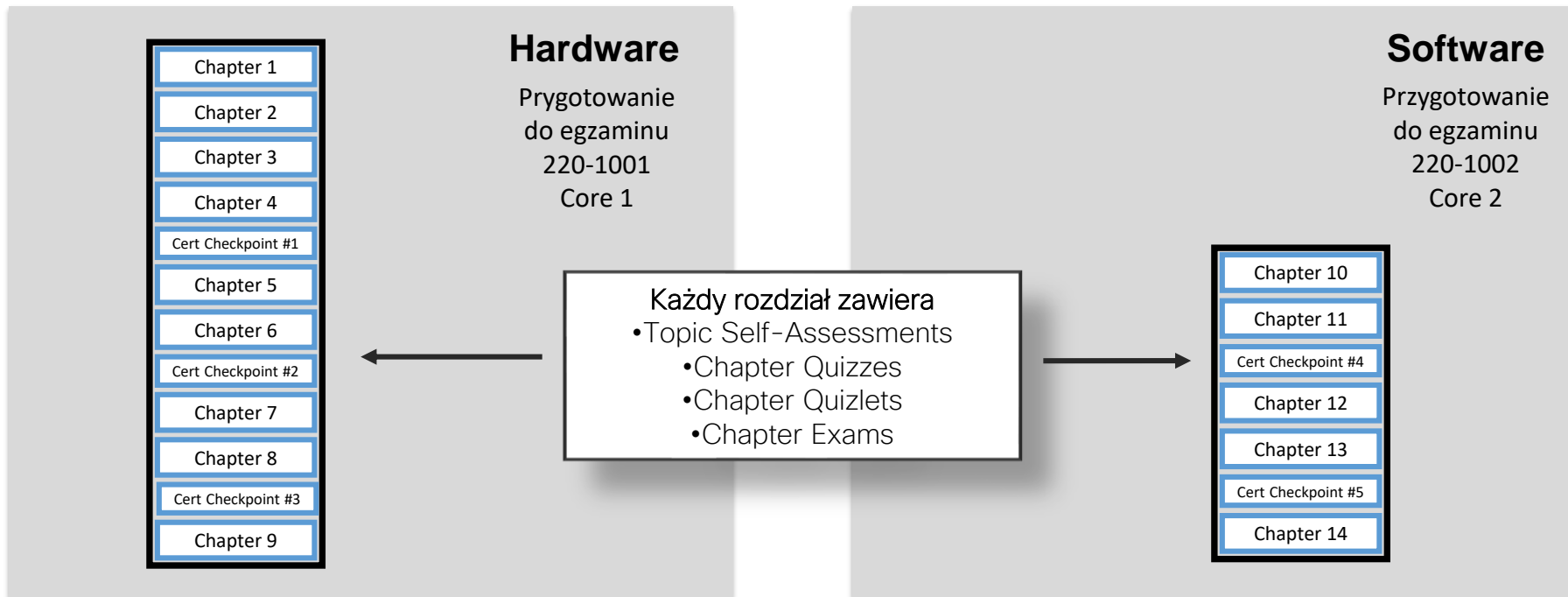
Software

- Windows 10 (7, 8, and 8.1 remain)
- Chrome OS
- HFS and swap partition
- Control panels
- Credential Manager and Sync Center
- Active Directory Security guard
- Server locks, and USB locks
- MDM policies, port security, and certificates
- RADIUS and TACACS
- DoS, DDoS, and Rainbow table
- Change management best practices
- Disaster prevention and recovery
- Scripting basics
- Remote access technologies



Lepsze rezultaty kształcenia

Treści kursu przygotowują do egzaminów Core 1 oraz Core 2





Lepsze rezultaty kształcenia

Co już umiesz?

- Każdy temat jest otwierany poprzez scenariusz wprowadzający w prezentowaną koncepcję.
- To także okazja do oceny, jakie treści są już dobrze zrealizowane i zrozumiane.

The screenshot shows a learning module interface with a dark blue header and a light gray main content area. The header contains navigation links: 'Chapter 3 Advanced Computer Hardware', '3.4 Computer Configuration', '3.4.2 Configurations for Specialized Computers', and '3.4.2.1 What Do You Already Know? - Configure a CAx Workstation'. The main content area is titled 'What Do You Already Know? - Configure a CAx Workstation'. It features an 'Instructions' box on the left and a main text area on the right. The 'Instructions' box contains text about the activity and a list of three buttons: 'Video Card', 'RAM', and 'Storage'. The main text area contains a paragraph about CAx workstations and a 'Try Again' dialog box. The 'Try Again' dialog box has an 'OK' button and a list of four buttons: 'On-board', 'Basic', 'High-end', and 'Powerful'. The 'Basic' button is highlighted with a blue border. At the bottom right of the interface, there are four circular icons: a speech bubble, a bookmark, a left arrow, and a right arrow.



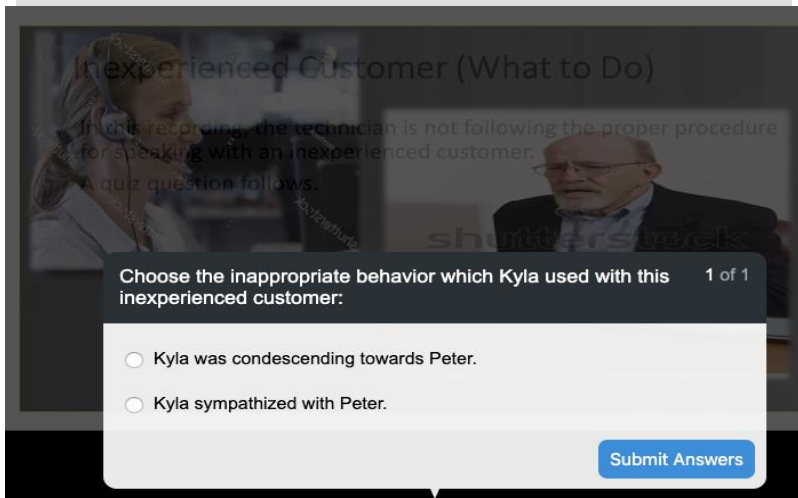
Lepsze rezultaty kształcenia

Scenariusze Obsługi Klienta (Video z Quizem)

Inexperienced Customer (What Not to Do)

In this recording, the technician is not following the proper procedure for speaking with an inexperienced customer.

A quiz question follows.



Inexperienced Customer (What to Do)

In this recording, the technician is not following the proper procedure for speaking with an inexperienced customer.

A quiz question follows.

Choose the inappropriate behavior which Kyla used with this inexperienced customer: 1 of 1

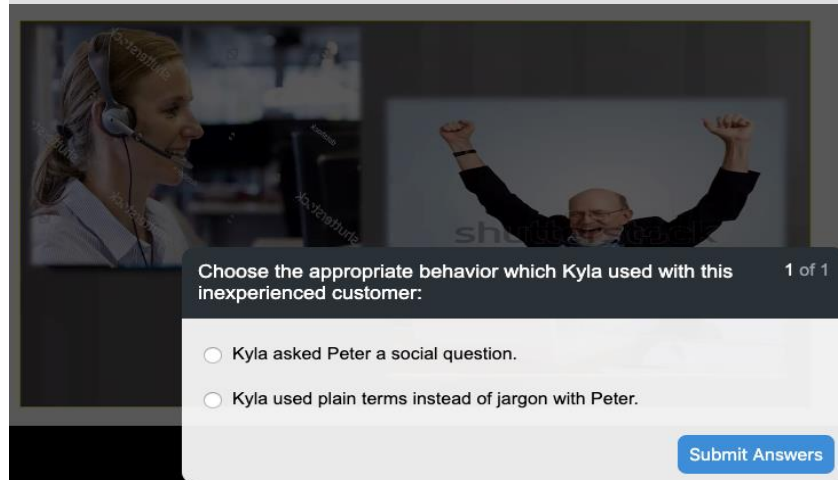
- Kyla was condescending towards Peter.
- Kyla sympathized with Peter.

Submit Answers

Inexperienced Customer (What to Do)

In this recording, the technician is not following the proper procedure for speaking with an inexperienced customer.

A quiz question follows.



Inexperienced Customer (What to Do)

In this recording, the technician is not following the proper procedure for speaking with an inexperienced customer.

A quiz question follows.

Choose the appropriate behavior which Kyla used with this inexperienced customer: 1 of 1

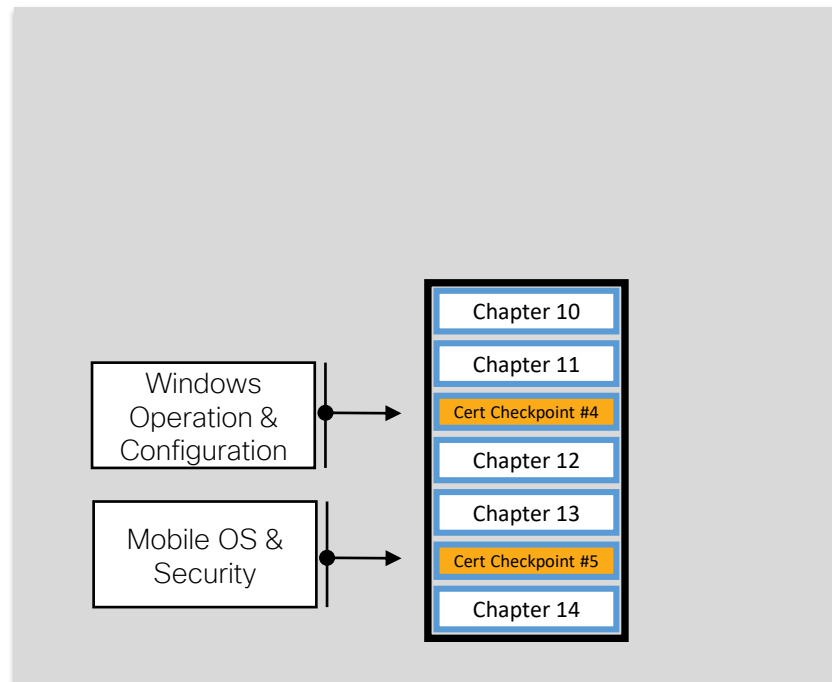
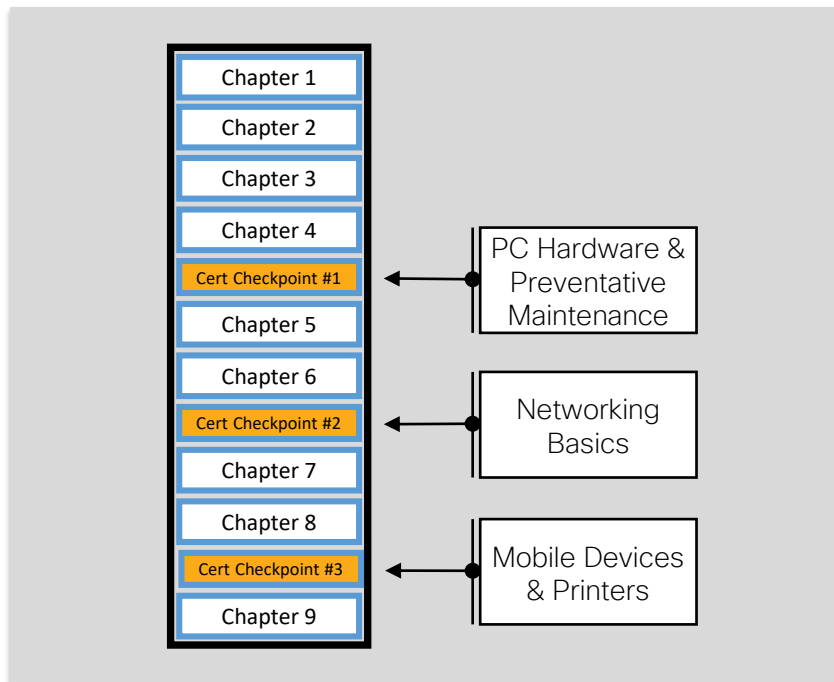
- Kyla asked Peter a social question.
- Kyla used plain terms instead of jargon with Peter.

Submit Answers



Lepsze rezultaty kształcenia

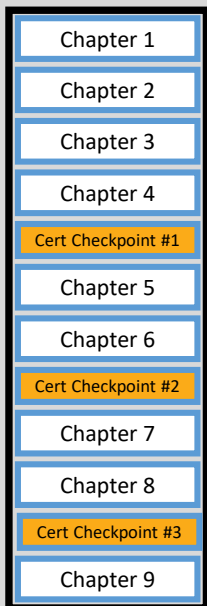
Weryfikacja umiejętności na przykładowych scenariuszach – przygotowanie do pracy.



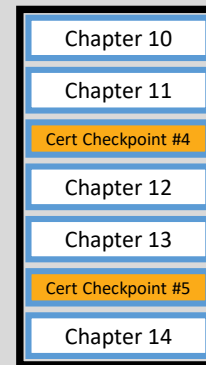
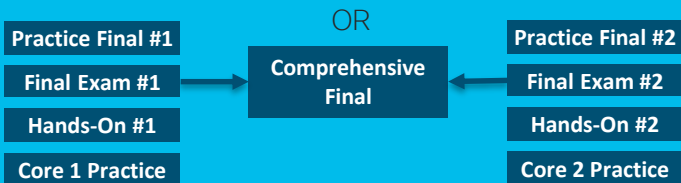


Lepsze rezultaty kształcenia

Assessments - zdobywanie umiejętności praktycznych



Choose to use separate or comprehensive final exams





Lepsze rezultaty kształcenia

Zarządzanie indywidualnymi egzaminami - różnymi dla każdego słuchacza

- Egzaminy są dynamicznie generowane z puli pytań, zapewniając jednocześnie spójność całego egzaminu oraz ten sam poziom trudności.
- Funkcja dostępna dla wszystkich form egzaminów
 - Chapters
 - Checkpoints
 - Practices
 - Finals
- Wszystkie elementy egzaminu są dostępne do przejrzania w specjalnym widoku: assessment viewer

The screenshot shows the 'Assessment Viewer' interface for 'Introduction to Networks (Version 6.0) - ITN Chapter 8 Exam Beta'. The main content area displays question 34: 'What is the prefix associated with the IPv6 address 2001:cd23:bf11:b155:a3c1::1/64?'. The options are radio buttons for 'od23', '2001', 'a3c1', 'bf11', and 'b155'. Below the question is a table with columns 'Observable', 'Description', and 'Max Value'. The table contains one row: 'correctness of response', '2 points for Option 5, 0 points for any other option', and '2'. A red arrow points from the 'LI 8.1 AIG Template 90000460' item in the left sidebar to the 'Section Details' pop-up window. The pop-up window has a title bar 'Section Details' with a close button. The content of the pop-up is: 'LI 8.1 AIG Template 90000460', '10 items are available.', '1 items are selected and delivered to the learner.', 'Selected items are grouped together.', and 'Selected items are displayed in random sequence.'

Observable	Description	Max Value
correctness of response	2 points for Option 5 0 points for any other option	2

Section Details ✕

LI 8.1 AIG Template 90000460

10 items are available.

1 items are selected and delivered to the learner.

Selected items are grouped together.

Selected items are displayed in random sequence.



Lepsze rezultaty kształcenia

Formative and Summative Assessments

- 14 Chapter Exams (po rozdziale)
- 2 Practice Course Final Exams NEW!
- 2 Course Final Exams NEW!
- 1 Comprehensive Final Exam
- 5 Certification Practice Checkpoints NEW!
- 2 Certification Practice Exams



Łącznie ponad 1000 pytań dostępnych w puli!

Informacje uzupełniające:
Logistyka & ramy czasowe





ITE 7 wymagania sprzętowe

Nacisk na Microsoft Windows 10, ale także Windows 7, Windows 8 and 8.1.

Wymagania:

1 komputer na słuchacza

Wymagania sprzętowe :

1 PC Case z zasilaczem 300W

Intel or AMD CPU, 1 gigahertz (GHz) or faster with support for PAE, NX, and SSE2

1 gigabyte (GB) RAM (32-bit) or 4 GB RAM (64-bit) (2 X 1GB or 2 X 2GB suggested)

60 GB hard drive (minimum); 80 GB or more (recommended)

1 DVD-ROM (minimum), DVDR, or BD/BDR

1 PCI, PCIe (recommended), or AGP video card

Szczegółowa lista będzie dostępna pod linkiem ITE Equipment znajdującym się w folderze Resources do kursu IT Essentials na stronie netacad.com

Lab PC Repair Tools

- Phillips and Flathead screwdriver
- Electrostatic discharge (ESD) wrist strap and cord
- Safety glasses, Lint-free cloth and a Flashlight
- Thermal compound
- Wire cutters, RJ-45 Crimpers, Cable strippers and a modular cable tester
- Multimeter and power supply tester

Additional Required Lab Equipment

- 1 Internet connection for Internet searches and driver downloads
- 1 printer or integrated printer/scanner/copier for the class to share
- 1 wireless router with WPA2 support for the class to share
- 2 Wireless network adapters (compatible with the above wireless router) for the class to share
- Various USB flash drives for moving files between computers in the labs.
- Smartphones and tablets are desirable for use with the labs in the Mobile Devices chapter

minimum requirements



ITE 7 Wymagania instruktorskie

Instruktorzy ITE 6

- Nie jest wymagane szkolenie instruktorskie do prowadzenia wersji 7.
- Zalecane zapoznanie się z treścią nowego kursu oraz materiałami instruktorskimi w folderze Resources

Nowi Instruktorzy

- Wymagane jest szkolenie instruktorskie w ośrodku ITC w zakresie ITE 7
- Obowiązkowe zaliczenie skills-based assessment
- Opcja szkolenie przyspieszonego Fast Track dostępna na osób z doświadczeniem w zakresie tematyki oraz :
 1. Minimum rok dswiadczenia w zakresie lub ekwiwalent w postaci certyfikacji
 2. Nauczanie podobnych treści (co najmniej dwie klasy)



ITE 7 Translation plan

Kurs	języki *
IT Essentials 7	Spanish
	Portuguese
	French
	Chinese
	Russian
	Arabic

* Publikacja w okresie listopad 2019 - marzec 2020 .



ITE 6 End of Life

Kurs	Lang *	Ostatni dzień zakładania kursu w wersji 6.0
IT Essentials 7	English	lipiec 31, 2020
	Spanish	End-of-life dates for translated languages will be announced when each language is released.
	Portuguese	
	French	
	Chinese	
	Russian	
	Arabic	



ITE 7 dodatkowe zasoby

- Dokument Scope and Sequence
- Frequently Asked Questions
- Release Notes
- Prezentacja
- Datasheet
- Ulotka At-a-Glance

<https://www.netacad.com/portal/resources/course-resources/it-essentials>

 Networking
Cisco Academy

IT Essentials 7.0 Scope and Sequence

Last Updated July 11, 2019

Target Audience

The Cisco® IT Essentials curriculum is designed for high schools, technical schools, and colleges. It covers computer work, how to assemble computers, and

Prerequisites

There are no prerequisites for this course.

Curriculum Description

 Networking
Cisco Academy

IT Essentials 7.0 Frequently Asked Questions

Last Updated 16 July 2019

Q. What are the main features of the Cisco Networking Academy® IT Essentials 7 curriculum?

A. This course covers the fundamentals of computer and mobile devices hardware and software concepts. Students who complete this course will be able to describe the internal components of a computer system, assemble a computer system, install an operating system, and troubleshoot using system tools and software. Students will also be able to configure devices to connect to the Internet and Cloud.

New topics in this version include:

- Windows 10 and Chrome OS
- RADIUS and TACACS
- DoS, DDoS and Rainbow table

Pytania?

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