IT Essentials 8.0 Release Notes

Last updated December 15, 2022

Purpose

The IT Essentials (ITE) course introduces students to the fundamentals of computer hardware and software. Additional topics covered are mobile devices, Linux, macOS, virtualization and cloud computing, as well as expanded information about Microsoft Windows operating systems, security, networking, troubleshooting, and the responsibilities of an IT professional.

By the end of the course, students will be able to:

- Describe the internal components of a computer and assemble a computer.
- Install and understand computer and mobile device operating systems.
- Connect to the internet and share resources in a networked environment.
- Secure SOHO networks, operating systems, and data.
- Troubleshoot using system tools and diagnostic software.

The Cisco Networking Academy ITE 8.0 course is the eighth major release of the ITE curriculum. These notes provide detailed information about this release, including curriculum content, known issues, and support information.

This 70-hour, instructor-led course includes hands-on labs, activities using Packet Tracer, and a wide array of assessment types and tools throughout the curriculum.

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Curriculum Content

Component	Description
E-Learning Content	14 chapters
Videos	74 videos
Labs	90 hands-on and paper-based labs. Windows labs use Windows 10, indicating differences to previous versions of Windows when prudent.
Packet Tracer Activities	6 Packet Tracer activities.
Interactive Activities	139 Interactive activities
Syntax Checkers	3 Syntax Checker activities
Skills Assessments	1 for exam 220-1101 1 for exam 220-1102
Chapter Quizzes	14 to help learners determine their mastery of a chapter topics
Chapter Exams	14
Checkpoint Exams	Comprehensive exams over groups of chapters. 1 for Chapters 1-4 1 for Chapters 5-6 1 for Chapters 7-8 1 for Chapters10-11 1 for Chapters 12-13
End-of-Course Survey	1 end-of-course survey to provide feedback for the course.
Practice Final Exam	1 for Chapters 1-9 1 for Chapters 10-14
Final Exam	1 for Chapters 1-9 1 for Chapters 10-14 1 comprehensive final exam for all chapters.
Certification Practice Exams	2 Certification Practice Exams (one for 220-1101 and one for 220-1102) designed to mimic the actual certification exams in content and duration.
Accessibility	All pages contain accessible text and highly descriptive media transcripts. All PDF files in the curriculum have been created with accessible features. Videos have closed captioning available.

Known Issues and Caveats

Item	Description
English Spelling	American-English spellings are interspersed in the text of the modules.
Closed Captions	Use the external video link if you are having issues with the embedded videos.
Packet Tracer Program	You must use Packet Tracer version 8.2 or greater to load the Packet Tracer activities within this course.

Course Outline

Chapter	Title
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 macOS Operating Systems
13	Security
14	The IT Professional

Updates in IT Essentials version 8.0

The topics within ITE 8.0 were updated to reflect the CompTIA A+ 220-1101 and A+ 220-1102 Certification Objectives. The design of the course has been changed to reflect the objectives of each exam. Chapters 1-9 cover the 220-1101 exam while chapters 10-14 cover the 220-1102 Exam. To ensure that students learn and adhere to good safety practices, the safety objectives in the 220-1102 exam are covered at the beginning of the course even though these objectives are in the 220-1102 exam

Support

For general assistance with curriculum, classroom, or program issues, please contact Networking Academy™ Support by signing into the netacad.com™ learning environment and clicking **?** > **NetAcad Support** at the top of the page.

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