

Appendix A: Objectives and Courseware Locations

ICT CyberSecurity Essentials

The ICT CyberSecurity Essentials course and this appendix are designed to help students prepare for the ICT CyberSecurity Essentials digital certificate exam. Students can use this appendix as a study guide to locate content within the ICT CyberSecurity Essentials courseware that corresponds to the specific skills objectives of the ICT CyberSecurity Essentials digital certificate exam.

Learning objectives for all courses in the ICT Essentials series are based on the Florida Department of Education's Curriculum Framework for Secondary–Middle School Information and Communications Technology skills, and align to National Assessment of Educational Progress (NAEP) frameworks for Technology and Engineering Literacy.

For more information about the ICT Essentials suite of courses and certificates, visit the ICT pages at www.ICTcertified.com.

ICT Domain 5: CyberSecurity Essentials Learning Objective	ICT CyberSecurity Essentials Course Courseware Lesson, Topics and Activities
Sub-Domain 5.1: Demonstrate knowledge of Internet safety practices and policies to help protect your identity.	
5.1.1 Describe risks associated with social networking sites (e.g., Facebook, Myspace, Twitter), and identify ways to reduce these risks. 5.1.2 Define "privacy," and relate it to the term "digital footprint." 5.1.3 Practice cybersafety techniques to protect your personal information when using Internet searches, e-mail, chat rooms and social network websites.	<u>ICT CyberSecurity Essentials</u> <u>Lesson 1: Protecting Your Identity</u> - Protect Your Identity and Your Privacy - Activity: Logging My Daily Schedule - Case Study: Safety and Revealing Too Much

ICT Domain 5: CyberSecurity Essentials Learning Objective	ICT CyberSecurity Essentials Course Courseware Lesson, Topics and Activities
Sub-Domain 5.2: Demonstrate knowledge of Internet safety practices to combat risks related to online social and recreational activities, including cyberbullying, sexting and online gaming.	
<p>5.2.1 Describe cyberbullying, its impact on perpetrators and victims, and ways to respond.</p> <p>5.2.2 Describe risks associated with sexting (including legal issues, social consequences), and discuss methods for response, reporting and prevention.</p> <p>5.2.3 Describe risks associated with online gaming, and identify ways to reduce these risks.</p>	<p><u>ICT CyberSecurity Essentials</u> <u>Lesson 2: Safety Risks in Online Activities</u></p> <ul style="list-style-type: none"> - Cyberbullying - Sexting - Online Gaming - Activity: Creating a PSA to Raise Cyberbullying Awareness - Activity: Creating a Video PSA to Raise Cyberbullying Awareness - Activity: Analyzing Sexting Scenarios
Subdomain 5.3: Demonstrate knowledge of ethical and legal issues related to content found on the Internet.	
<p>5.3.1 Discuss issues related to downloading music or videos from the Internet, including unethical vs. illegal actions.</p> <p>5.3.2 Compare and contrast rules for copyright and fair use, especially in relation to using online resources for school and educational purposes.</p>	<p><u>ICT CyberSecurity Essentials</u> <u>Lesson 3: Legal and Ethical Issues of Internet Content</u></p> <ul style="list-style-type: none"> - Using Content from the Internet - Activity: Presenting Fair Use Guidelines - Activity: Analyzing Copyright Scenarios

ICT Domain 5: CyberSecurity Essentials Learning Objective	ICT CyberSecurity Essentials Course Courseware Lesson, Topics and Activities
Subdomain 5.4: Demonstrate knowledge of security threats to computer systems, and perform countermeasures to secure a computer.	
<p>5.4.1 Distinguish between viruses and malware, and discuss their impact on personal privacy and computer operation.</p> <p>5.4.2 Describe common threats used to spread malware and viruses, including phishing, pharming, trojans, spyware, malicious sites, "free" downloads.</p> <p>5.4.3 Perform an antivirus scan on a computer system to check for viruses and malware.</p> <p>5.4.4 Describe strong password practices.</p> <p>5.4.5 Practice cybersafety techniques to protect your computer system when using Internet searches, e-mail and social network websites.</p> <p>5.4.6 Identify security issues related to mobile phones, including personal information compromised if a phone is lost or stolen.</p>	<p><u>ICT CyberSecurity Essentials</u> <u>Lesson 4: Protecting your Computer from Security Threats</u></p> <ul style="list-style-type: none"> - Securing your Computer - Activity: Creating a Digital Bill of Rights - Activity: Creating a CyberShield - Case Study: Security and Surfing the 'Net - Case Study: Security and Avoiding P2P