IC3 GS6 Level 1 Lesson Plan

Approximately 22.5 hours of videos, labs, and projects.

Domain 1 Lesson Plan

Domain 1 - Technology Basics [approximately 5 hours of videos, labs, and projects]

Lesson	Lesson Topic and Subtopics	Objectives	Exercise Labs	Workbook Projects and Files
Pre-Assessment Assessment time - 00:30:00	Technology Basics: Pre-Assessment			
Lesson 1 Video time - 00:09:42 Exercise Lab time - 00:21:00 Workbook time - 00:25:00	**Access and Navigate Between Digital Environments** Introduction How to Study for This Exam Operating System Terms and Concepts Basic Functions of Web Browsers Accessing Digital Environments Navigating Between Digital Environments	1 Technology Basics 1.1 Access and navigate between digital environments 1.1.1 Recognize operating system terms and concepts 1.1.2 Explain basic functions of web browsers 1.1.3 Explain processes and requirements for accessing digital environments 1.1.4 Explain methods of navigating between digital environments	Windows Search Bar Personalize the Background Adding a Bookmark View Wi-Fi Settings Researching by Topic Move Between Web Tabs Move Between Apps	Operating Systems – pg. 10 N/A Functions of a Web Browser – pg. 11 N/A Digital Environment Requirements – pg. 12 N/A Navigating Between Environments– pg. 13 N/A
Lesson 2 Video time - 00:09:02 Exercise Lab time - 00:22:00 Workbook time - 00:30:00	**Digital Devices, Connections, and Fundamental Software Concepts** Identify Input and Output Devices Cables, Connectors, and Connections Basic Software Application Concepts Proprietary and Open Source Software Installing Software from Online Sources	1.2 Identify digital devices and connections 1.2.1 Identify input devices 1.2.2 Identify output devices 1.2.3 Identify cables, connectors, and connections 1.3 Explain fundamental software concepts 1.3.1 Explain basic software application concepts 1.3.2 Compare and contrast proprietary and open source software 1.3.3 Describe processes for installing software from online sources	USB Facts Enable Bluetooth on a PC Enable Bluetooth on a Mac Download Software Install Software	Input and Output Devices – pg. 14 N/A Connectors – pg. 15 N/A Software Applications – pg. 16 N/A Proprietary and Open Source Software – pg. 17 N/A Installing Software Online – pg. 18 N/A
Lesson 3 Video time - 00:16:00 Exercise Lab time - 00:16:00 Workbook time - 01:03:00	**Fundamental Hardware, Operating System, and Networking Concepts** Concepts Related to Computing Devices Concepts Related to Memory Concepts Related to Data Storage Mobile Device Operating Systems Computer Operating Systems Network Connectivity Concepts Online Connectivity Concepts Network and Connection Types Networking Infrastructure Identify Whether a Device is Connected Basic Network Troubleshooting Techniques	1.4 Explain fundamental hardware concepts 1.4.1 Describe concepts related to computing device 1.4.2 Describe concepts related to memory 1.4.3 Describe concepts related to data storage 1.5 Explain fundamental operating system concepts 1.5.1 Compare and contrast features of mobile device operating systems 1.5.2 Compare and contrast features of computer operating systems 1.6 Explain fundamental networking concepts 1.6.1 Describe network connectivity concepts 1.6.2 Describe online connectivity concepts 1.6.3 Compare and contrast network and connection types 1.6.4 Describe networking infrastructure 1.6.5 Identify whether a device is connected 1.6.6 Describe basic network troubleshooting techniques	Open a Browser Internet Connection on a PC Internet Connection on a Mac Network Troubleshooting	Computing Devices – pg. 19 N/A RAM and ROM – pg. 20 N/A Hard Drive Storage – pg. 21 N/A Mobile Device Operating Systems – pg. 22 N/A Computer Operating Systems – pg. 23 N/A Connecting to a Network – pg. 24 N/A Online Connectivity – pg. 25 N/A Networks and Connections – pg. 26 N/A Network Infrastructure – pg. 27 N/A Network Connection Status – pg. 28 N/A Network Troubleshooting – pg. 29 N/A
Post-Assessment Assessment time - 01:00:00	Technology Basics: Post-Assessment			