LAUSD Division of Adult and Career Education

Career Technical Education (CTE) Course Outline

Course Title:	Microcomputer Applications/5: IC3 Certification Preparation
Course Number:	75-35-92
Date:	July 2024
Industry Sector:	Business and Finance
Pathway:	Business Management
CBEDS Title:	Business Communications
CBEDS Code:	4623
Credits:	5

Hours:	Total
	75

Course Description:

This competency-based course is the last in a sequence of five designed for computer operation. It provides students with technical instruction and practical experience in fulfilling the requirements of the Internet and Computing Core Certificate (IC3) Program, a global training and certification program for students and employees who want to excel in a digital world. IC3 Certification consists of three core certification exams: Computing Fundamentals, Key Applications, and Living On-Line. The competencies in this course are aligned with the California High School Academic Content Standards and the California Career Technical Education Model Curriculum Standards.

Prerequisites:	Successful completion of the Microcomputer Applications/1: Word Processing (75-35-82), Microcomputer Applications/2: Spreadsheet (75-35-84), Microcomputer Applications/3: Presentations (75-35-88) and Microcomputer Applications/4: Database Management (75-35-92) courses highly recommended.
NOTE:	For Perkins purposes this course has been designated as a capstone course. This course can be repeated once a student receives a Certificate of Completion.
A-G Approval	N/A
Methods of Instruction:	Lectures and discussion, demonstrations, student hands-on practice, individualized instruction, critical thinking and listening skills, and peer teaching and cooperative learning.
Student Evaluation:	Summative: End of section assessments
Industry Certification:	N/A
Recommended Texts:	Wong, Sue; Heer, Irina, Hegedus, Kelly; Yulo, Kevin. IC3 Certification Guide Using Microsoft Windows 10 & Microsoft Office 2016, Cengage Learning Publisher, 2018. Wong, Sue; Heer, Irina, Hegedus, Kelly; Yulo, Kevin. IC3 Internet and Computing Core Certification Guide, IC3, CCI Learning Publisher, 2016.
Link to Resource Folder	https://bit.ly/ic3certificationresources

Approved by: Renny L. Neyra, Executive Director LA Unified School District | Division of Adult And Career Education CTE Course Outline 3

COMPETENCY AREAS AND STATEMENTS

MINIMAL COMPETENCIES

STANDARDS

COMPUTING FUNDAMENTALS

Computing Fundamentals Exam covers subjects needed for a foundational understanding of computing, including knowledge and use of operating systems, computer hardware, network and mobile devices, file management, software, cloud computing, security, and maintenance.

Learn and apply the features and functions of modern operating systems.	 Describe the different operating systems. Explain the procedures on how to power on and power off. Describe the Windows login screen. Identify the different parts of the Windows desktop. Explain and demonstrate how to: work with menus use dialog boxes manage multiple Windows close Windows use the start button (Windows key) and the taskbar access the control panel and settings app g. run the operating system updates use the features of mobile operating systems Describe changing display properties and settings. Describe the ease of access settings. Pass an operating system assessment with a 90% score or higher. 	Career Ready Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.2 Technical Knowledge & Skills: 10.1 Demonstration & Application: 11.1 CTE Pathway:
(4 hours)		A7.1, A7.2, A7.4
IB. HARDWARE Learn and evaluate different types of computers, computer hardware components	 Define and explain device drivers, hardware, firmware, and platforms. Define, explain, and demonstrate measuring capacity, frequency, and bandwidth. Define, explain, and discuss Random Access Memory (RAM) and storage devices. 	Career Ready Practice: 1, 2, 4, 10 CTE Anchor: Academics:

and examine ways to	4. Define, explain, and identify different types of 1.0
connect devices.	computers: Communications:
	a. servers 2.1, 2.3, 2.5
	b. desktop computers
	c. laptops Technology:
	d. notebook computers 4.2
	e. Chromebooks Technical
	f. tablets Knowledge &
	g. smart phones Skills:
	5. Explain and identify the following output devices: a. keyboards
	b. pointing devices Demonstration &
	c. touch screens Application:
	6. Explain smartphone hardware items:
	a. Subscriber Identity Module (SIM)
	b. Smart Phone Keyboard/Dial Pad
	7. Explain Windows power plan settings.
	8. Demonstrate how to connect peripherals such as: A7.1, A7.2, A7.4
	a. video ports and connectors
	b. network port and connectors
	c. audio ports and connectors
	d. USB ports and connectors
	9. Define and explain wireless connection
	technologies:
	a. Bluetooth
	b. infrared 10. Pass a hardware assessment with a 90% score or
(4 hours)	higher.
<u> </u>	Tilgitor.
C. NETWORK & MOBILE	Define and describe a network and its benefits. Caroor Pondy
DEVICES	2 Evolain how Internet connection sharing impacts
	the network.
Learn, apply, and	3. Define and explain basic network technology: 1, 2, 4
evaluate networking	a. TCP/IP
concepts.	b. LANs and WANs CTE Anchor:
	c. IP addresses Academics:
	4. Explain the process of obtaining and selecting 1.0
	Internet service providers.
	3. Explain connecting peripheral devices from the
	Internet to LAN: 2.1, 2.3, 2.5
	a. broadband modems b. broadband routers Technology:
	c. public and private IP addresses 4.2, 4.3
	6. Explain wired/wireless connections to the Internet:
	a. Ethernet Knowledge &
	b. Network Interface Card (NIC) Skills:

		c. advantages and disadvantages of	10.1
		wired/wireless connections	
		d. adding a shared printer to the wired/wireless	CTE Pathway:
		LAN	A7.1, A7.2, A7.4
		e. Wi-Fi	7(7.1,7(7.2,7(7.1
		f. adapter signals and band	
		g. wireless security	
		h. connecting computer to a WLAN	
		i. Wi-Fi protected setup (WPS)	
		j. adding a network printer to the WLAN	
	7.	Explain the setup process of a cellular network:	
		a. cellular generations	
		b. cellular carriers	
		c. network coverage	
		d. internet service	
		e. cellular service to include contract services,	
		prepaid services, and plan add-on	
		f. cellular devices to include smartphone, basic	
		cell phone, cellular enabled tablet, mobile	
		data	
	8.	Explain the advantage and disadvantages of a	
		hardwired phone:	
		a. Private Branch Exchange (PBX)	
		b. business telephones	
	9.	Explain the setup process of leaving a clear voice	
		message in voicemail.	
	10.	Pass a network & mobile devices assessment	
(6 hours)		with a 90% score or higher.	
ID. FILE MANAGEMENT	1.	Explain file management concepts.	0
	2.	Explain and describe File Explorer.	Career Ready
Learn, apply, and		Explain and demonstrate folders and directory	Practice:
evaluate the	"	structure.	1, 2, 4, 5, 10
management	4.	Describe "This PC."	
techniques for	5.	Set "This PC" options.	CTE Anchor:
computer file systems.	6.	Access a storage drive.	
	7.	Recognize different types of files.	Academics:
	8.	Work with files, folders, and the Recycle Bin.	1.0
	9.	Describe naming folders and files.	Communications:
		Demonstrate and explain how to	2.1, 2.3, 2.5
	'	a. find/sort files	
		b. copy/move files	Technology:
	1	View the contents of a drive or folder.	4.2
	11	VIEW THE COMENIS OF A CHIVE OF TOTAL	
			Problem Solving
	12.	Explain displaying file properties. Describe the default file locations.	Problem Solving & Critical

	 15. Work with zip/unzip (compressed/uncompressed) files. 16. Describe and demonstrate running an application from File Explorer. 17. Explain the functionality of the run command. 18. Pass a file management assessment with a 90% score or higher. 	5.2 Technical Knowledge & Skills: 10.1 Demonstration & Application: 11.1
(5 hours)		CTE Pathway: A7.1, A7.2. A7.4
IE. SOFTWARE Learn how to obtain, install, configure, and manage software/apps.	 Define and explain the benefits of software. Demonstrate the process of installing, uninstalling, repairing, and updating apps and applications. Explain and demonstrate how to: a. set the software preferences b. work with Windows Apps Explain and discuss messaging applications. Explain the differences between locally-installed vs. cloud-based software. Pass a software assessment with a 90% score or higher. 	Career Ready Practice: 1, 2, 4, 5, 10 CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.2, 4.3 Problem Solving & Critical Thinking: 5.3 Technical Knowledge & Skills: 10.1 Demonstration & Application: 11.1 CTE Pathway: A7.1, A7.2, A7.4
(4 hours)		A/.I, A/.Z, A/.4

1F. CLOUD COMPUTING

Learn, apply, and evaluate cloud computing.

- Discuss and explain the benefits of cloud computing and hosting services.
- 2. Explain and demonstrate the different locations where you can save your document(s):
 - a. cloud accounts
 - b. storage on google drive
 - c. google drive mobile apps
 - d. Microsoft One Drive
 - e. iCloud
 - Dropbox
- 3. Explain the different types of cloud-based applications:
 - a. Learning Management System (LMS)
 - b. Customer Relationship Management (CRM) software
- 4. Discuss the setup of mobile notifications.
- 5. Pass a cloud computing assessment with a 90% score or higher.

Career Ready Practice:

1, 2, 4, 10

CTE Anchor:

Academics:

1.0

Communications:

2.1, 2.3, 2.5

Technology:

4.2, 4.3

Technical

Knowledge &

Skills:

10.1

Demonstration &

Application:

11.1

CTE Pathway:

A7.1, A7.2, A7.4

(4 hours)

1G. SECURITY AND MAINTENANCE

Learn, apply, and evaluate computer security and maintenance.

- 1. Explain the importance of security and maintenance.
- 2. Discuss the selection of username, passwords, and keeping accounts safe.
- 3. Identify security risks pertaining to:
 - a. viruses
 - b. Trojans
 - c. malware (spyware/adware)
 - d. network connection using public computers
 - e. social engineering
 - phishing
- 4. Discuss the various methods to protect your identity:
 - a. antivirus software
 - b. firewalls
 - c. monitoring software
 - d. conducting safe e-commerce transactions
 - e. Virtual Private Networks (VPNs)

Career Ready Practice:

1, 2, 4, 8, 10

CTE Anchor:

Academics

1.0

Communications:

2.1, 2.3, 2.5, 2.6

Technology:

4.2, 4.3

Ethics & Legal

Responsibilities:

8.3, 8.4, 8.6, 8.7

	5. Identify and demonstrate if an antivirus software	Technical
	is installed on a computer.	Knowledge &
	6. Explain the process to backup and restore:	Skills:
	a. personal files	10.1, 10.2
	b. PC system files and settingsc. mobile data	Demonstration &
	d. factory reset options for PC	Application:
	e. reset mobile devices	11.1
	7. Explain hardware or software pertaining to	
	troubleshooting connection issues.	CTE Pathway:
(6 hours)	8. Pass a security and maintenance assessment with a 90% score or higher.	A7.1, A7.2, A7.4

II. APPS AND APPLICATIONS

Understand common computer applications such as word processing, spreadsheet, database operations, and presentation graphics.

2A.WORD

Learn, apply, and evaluate basic word processing techniques.

- 1. Start and exit an application.
- 2. Understand the Backstage View.
- 3. Looking at the edit screen, assessing commands, and features.
- 4. Navigate through a document
- 5. Explain, describe, and demonstrate how to enter and edit text.
- 6. Demonstrate using the rulers and selecting text.
- 7. Understand the process of managing files by:
 - a. saving documents
 - b. starting a new document
 - c. closing a document
 - d. opening a document
- 8. Practice manipulating text by:
 - a. customizing the view
 - b. using undo
 - c. using repeat or redo
 - d. using cut, copy, and paste
 - e. using find and replace
- 9. Demonstrate how to apply formatting to:
 - a. enhance text characters
 - b. enhance paragraphs
 - c. understand tab settings
- 10. Review formatting a document by:
 - a. changing paper size
 - b. changing orientation

Career Ready

Practice:

1, 2, 4, 10

CTE Anchor:

Academics:

Communications:

2.1, 2.3, 2.5

Technology:

4.2

Technical

Knowledge &

Skills:

10.1

Demonstration &

Application:

11.1

CTE Pathway:

A7.1, A7.2, A7.4

	c. changing margins	
	d. adding and removing page numbers	
	e. adding and removing columns	
	f. adding and removing page and section	
	breaks	
	11. Demonstrate how to prepare a document for	
	printing to:	
	a. proof the document	
	b. print preview the document	
	c. print the document	
	12. Work with pictures, multimedia files, and	
	manipulating objects.	
	13. Review modifying a table by:	
	a. inserting a table	
	b. formatting text in a table	
	c. formatting a table	
	d. inserting or deleting rows/columns/cells	
	e. adjusting width/height	
	f. merging and splitting cells	
	14. Explain how to track changes.	
()	15. Pass a word assessment with a 90% score or	
(5 hours)	higher.	
OD EVOEI	1 Poviow Evacl coroop:	Carroon Donalis
2B. EXCEL	Review Excel screen:	Career Ready
	a. understand basic terminology	Career Ready Practice:
Learn, apply, and	a. understand basic terminologyb. enter data in the worksheet	•
Learn, apply, and evaluate the	a. understand basic terminologyb. enter data in the worksheetc. navigate the worksheet	Practice:
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: 	Practice:
Learn, apply, and evaluate the	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook 	Practice: 1, 2, 4, 10 CTE Anchor:
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template 	Practice: 1, 2, 4, 10 CTE Anchor: Academics:
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template c. saving workbooks 	Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template 	Practice: 1, 2, 4, 10 CTE Anchor: Academics:
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template c. saving workbooks d. opening workbooks 	Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0 Communications:
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template c. saving workbooks d. opening workbooks e. closing workbooks 	Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0 Communications:
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template c. saving workbooks d. opening workbooks e. closing workbooks 3. Demonstrate how to manipulate the content of a 	Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template c. saving workbooks d. opening workbooks e. closing workbooks 3. Demonstrate how to manipulate the content of a workbook: 	Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.2
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template c. saving workbooks d. opening workbooks e. closing workbooks 3. Demonstrate how to manipulate the content of a workbook: a. selecting cells 	Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.2 Technical
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template c. saving workbooks d. opening workbooks e. closing workbooks e. closing workbooks 3. Demonstrate how to manipulate the content of a workbook: a. selecting cells b. using undo or repeat 	Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.2 Technical Knowledge &
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template c. saving workbooks d. opening workbooks e. closing workbooks 3. Demonstrate how to manipulate the content of a workbook: a. selecting cells b. using undo or repeat c. copying and moving data 	Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.2 Technical Knowledge & Skills:
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template c. saving workbooks d. opening workbooks e. closing workbooks 3. Demonstrate how to manipulate the content of a workbook: a. selecting cells b. using undo or repeat c. copying and moving data d. changing the column widths 	Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.2 Technical Knowledge &
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template c. saving workbooks d. opening workbooks e. closing workbooks 3. Demonstrate how to manipulate the content of a workbook: a. selecting cells b. using undo or repeat c. copying and moving data d. changing the column widths e. adjusting row height f. adjusting rows, columns, or cells 4. Create simple formulas and use: 	Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.2 Technical Knowledge & Skills:
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template c. saving workbooks d. opening workbooks e. closing workbooks 3. Demonstrate how to manipulate the content of a workbook: a. selecting cells b. using undo or repeat c. copying and moving data d. changing the column widths e. adjusting row height f. adjusting rows, columns, or cells 4. Create simple formulas and use: a. common built-in functions 	Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.2 Technical Knowledge & Skills: 10.1
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template c. saving workbooks d. opening workbooks e. closing workbooks 3. Demonstrate how to manipulate the content of a workbook: a. selecting cells b. using undo or repeat c. copying and moving data d. changing the column widths e. adjusting row height f. adjusting rows, columns, or cells 4. Create simple formulas and use: a. common built-in functions b. absolute and relative cell references 	Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.2 Technical Knowledge & Skills: 10.1 Demonstration & Application:
Learn, apply, and evaluate the application techniques	 a. understand basic terminology b. enter data in the worksheet c. navigate the worksheet 2. Demonstrate how to manage workbooks by: a. creating a blank workbook b. creating a new workbook from a template c. saving workbooks d. opening workbooks e. closing workbooks 3. Demonstrate how to manipulate the content of a workbook: a. selecting cells b. using undo or repeat c. copying and moving data d. changing the column widths e. adjusting row height f. adjusting rows, columns, or cells 4. Create simple formulas and use: a. common built-in functions 	Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.2 Technical Knowledge & Skills: 10.1 Demonstration &

	5. Demonstrate how to format the data in a	CTE Pathway:
	 5. Demonstrate how to format the data in a worksheet by: a. changing numbers and decimals b. changing cell alignment c. changing font and sizes d. applying cell borders e. applying colors and patterns 6. Explain how to work with charts by: a. selecting chart types b. changing the chart layout 7. Explain how to work with lists and databases by: a. sorting data b. filtering information c. understanding Excel databases 8. Demonstrate how to modify and format table 	CTE Pathway: A7.1, A7.2, A7.4
	data.9. Explain how to finalize the print output by printing the worksheet.	
(5 hours)	10. Pass an Excel assessment with a 90% score or higher.	
Learn, apply, and evaluate the application techniques for basic databases.	 Define the following terms: data database spreadsheet database Relational Database Management System (RDBMS) multiple related tables Explain the different types of database tables: table metadata primary key table relationship – foreign keys database metadata Understand the database queries and database forms. Explain and demonstrate how a database is used in: databases and websites queries on the web forms on the web Pass an Access assessment with a 90% score or higher. 	Career Ready Practice: 1, 2, 4, 10 CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.2 Technical Knowledge & Skills: 10.1 Demonstration & Application: 11.1 CTE Pathway:
(5 hours)		A7.1, A7.2, A7.4

2D. POWERPOINT

Learn, apply, and evaluate basic techniques for creating and utilizing presentation graphics.

- Define, review, and edit the PowerPoint screen.
- 2. Demonstrate how to work with presentations:
 - a. creating a presentation
 - b. saving a presentation
 - c. closing a presentation
 - d. opening a presentation
 - e. displaying information in the presentation
- 3. Demonstrate how to manage slides by:
 - a. inserting new slides
 - b. changing the slide layout
 - c. changing the slide background
 - d. deleting slides
 - e. rearranging the slides
- 4. Demonstrate how to manage slide objects by:
 - a. using select vs. edit mode
 - b. manipulating text
 - c. inserting pictures
 - d. inserting media objects
- 5. Demonstrate how to animate objects by:
 - a. customizing the animation
 - b. applying slide transitions
- 6. Explain the process of how to:
 - a. set up and view slide shows
 - b. consider the proper hardware components
 - c. use Presenter View
- 7. Explain the process of sharing the presentation by:
 - a. using the share tab
 - b. using the export tab
 - c. creating handouts and outlines in Word.
 - d. publishing the presentations
 - e. printing the slides
- 8. Pass a PowerPoint assessment with a 90% score or higher.

(5 hours)

Career Ready Practice:

1, 2, 4, 10

CTE Anchor:

Academics:

1.0

Communications:

2.1, 2.3, 2.5

Technology:

4.2, 4.3

Technical Knowledge

& Skills:

10.1, 10.3

Demonstration &

Application:

11.1

CTE Pathway:

A7.1, A7.2, A7.4

III. LIVING ONLINE

Demonstrate the ability to use the Internet, manage media literacy and digital communications, understand email, contacts, and calendaring, and share information using social media.

3A. LOOKING AT THE INTERNET

- 1. Identify and define connected communities by:
 - a. introducing the Internet
 - b. backbone
 - c. hardware

Career Ready Practice:

1, 2, 4, 10

Learn and evaluate the different Internet applications.

- d. public networks
- e. private networks
- f. specifying a network connection type
- 2. How to find computers on the Internet and review:
 - a. IP address
 - b. Domain Name System (DNS)
- 3. Understand the purpose of domain names and domain levels.
- 4. Understand the Uniform Resource Locator (URL) components:
 - a. protocol identifier
 - b. path and file names in URLs
- 5. Define and explain the following terms:
 - a. World Wide Web (WWW)
 - b. web page
 - c. HTML
 - d. CSS
 - e. hyperlinks
 - f. browser
 - g. address bar
 - h. scroll bars
 - i. browser windows
 - j. tabs
 - k. hyperlinks in the browser
 - I. popular browsers
- 6. Review the browser navigation tools:
 - a. back button
 - b. forward button
 - c. refresh button
 - d. home page
 - e. start page
 - f. settings
- 7. Review the browser function and features:
 - a. uploading
 - b. downloading
 - c. searching from the address bar
 - d. favorites/bookmarks
- 8. Review and demonstrate the browser preferences and settings:
 - a. handling pop-ups
 - b. cookies
 - c. autofill/autocomplete
 - d. browser cache
 - e. browsing history
 - private browser

CTE Anchor:

Academics:

1.0

Communications:

2.1, 2.3, 2.5

Technology:

4.2

Technical

Knowledge &

Skills:

10.1

Demonstration &

Application:

11.1

CTE Pathway:

A7.1, A7.2, A7.4

	 9. Explain and demonstrate the extending browser functionality: a. plug-ins/add-ons b. in-browser apps 10. Identify the web standards: a. site homepage b. navigation bar c. widgets 	
(5 hours)	d. standard pages e. using a mouse on the web 11. Pass a looking at the Internet assessment with a 90% score or higher.	
3B. MANAGING MEDIA LITERACY Use information found online in a respectful and legal manner.	 Explain how to use a search engine for information to: a. narrow the research results b. search and research social media sites c. validate resources Understand and define copyright issues such as: a. intellectual property b. copyright c. licensing d. piracy e. censorship and filtering f. plagiarism Pass managing media literacy assessment with a 90% score or higher. 	Career Ready Practice: 1, 2, 4 CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5 Technology: 4.2 Technical Knowledge & Skills: 10.1 CTE Pathway: A7.1, A7.2, A7.4
(4 hours)		A7.1, A7.2, A7.4
3C. DIGITAL COMMUNICATIONS Learn various digital	 Understand digital communication technologies: real-time (synchronous) delayed (asynchronous) Recognize asynchronous communication tools: 	Career Ready Practice: 1, 2, 4, 10
communication technologies.	 a. electronic mail (email) b. SMS text messages 3. Explain real-time communication technologies: a. phone calls b. conference calling c. WebEx 4. Understand Skype features: 	CTE Anchor: Academics: 1.0 Communications: 2.1, 2.3, 2.5

	a adjusting vous status	Toohnolog: "
	a. adjusting your statusb. managing your Skype profile	Technology:
	c. group conversations	4.2
	Review Google Hangouts.	Technical
	6. Explain online conferencing:	Knowledge &
	a. VolP Conferencing	Skills:
	b. video conferencing	10.1
	7. Recognize collaboration tools:	Demonstration &
	a. Office 365	
	b. SharePoint	Application:
	c. Skype for business	11.1
	8. Explain and demonstrate distance learning	
	technologies:	CTE Pathway:
	a. virtual libraries	A7.1, A7.2, A7.4
	b. email	
	c. discussion boards	
	d. social networking	
	9. Explain and demonstrate streaming:	
	a. Audible	
	b. Pandora	
	c. Spotify	
	d. Hulu	
	e. Netflix	
	f. YouTube	
(= :	10. Pass digital communications assessment with a	
(5 hours)	90% score or higher.	
3D. UNDERSTANDING EMAIL,	Review using an email program:	Career Ready
CONTACTS, AND	a. creating new messages	Practice:
CALENDARING	b. receiving and replying to messages	
	c. using signatures	1, 2, 4
Learn, apply, and	d. working with attachment(s)	
evaluate the	e. managing spam	CTE Anchor:
operational techniques	f. archiving messages	Academics:
for the electronic email	g. using contacts	1.0
and time management	h. proofing and sending your message(s)	Communications:
system.	2. Review using the Gmail calendar by:	
	a. creating an appointment	2.1, 2.3, 2.5
	b. working with multiple calendars	Technology:
	3. Pass an understanding email, contacts, and	4.2
	calendaring assessment with a 90% score or	
	higher.	CTE Pathway:
(3 hours)		A7.1, A7.2, A7.4
		I

3E. YOUR LIFE ONLINE

Learn online identity, how to protect it, and the effect on personal health.

- 1. Describe sharing information using social media network:
 - a. building the network
 - b. popular social media networks
- 2. Explain open vs. closed social media networks and their advantages.
- 3. Describe Linked-in to:
 - a. create a linked-in account
 - b. create your linkedin profile
 - c. invite connection
- 4. Explain managing your digital identity:
 - a. digital footprints
 - b. digital identity importance
 - c. personal identity
 - d. professional identity
- 5. Explain online behavior pertaining to cyber bullying.
- 6. Recognize how computers and your health relate
 - a. coping with change
 - b. disengaging
 - c. ergonomic best practices
- 7. Pass your life online assessment with a 90% score or higher.

Career Ready Practice:

1, 2, 4, 8

CTE Anchor:

Academics:

1.0

Communications:

2.1, 2.3, 2.5, 2.6

Technology:

4.2, 4.3

Health & Safety:

6.5, 6.6

Ethics & Legal

Responsibilities:

8.4

Technical

Knowledge &

Skills:

10.1

CTE Pathway:

A7.1, A7.2, A7.4

(5 hours)

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