Standard ID	Standard Text	Edgenuity Lesson Name
TS	Technology and Society	
TS.1	Describe how new developments in information technology affect the supply/demand characteristics of the job market.	The Four Areas of Information Technology Employment Compare and Contrast Careers in IT
TS.2	Describe how information technology has changed organization structures.	Organizations
TS.3	Describe how information technology has changed the breadth and level of worker responsibilities.	Organizational Responsibilities
TS.4	Describe how information technology has changed the manner in which training is offered and implemented.	Compare and Contrast Careers in IT Lifelong Learning Skills Create a Professional Portfolio Information Technology Job-Specific Math Skills
TS.5	Analyze and compare society's influence on information technology and information technology's influence on society.	The Four Areas of Information Technology Employment Compare and Contrast Careers in IT Entrepreneurship Lifelong Learning Skills Create a Professional Portfolio Teamwork and Collaboration Information Technology Job-Specific Math Skills IT Legal and Ethical Issues Wireless IT Computing Basics The Evolution of the Computer

Standard ID	Standard Text	Edgenuity Lesson Name
TS.6	Implement problem-solving processes to evaluate and verify the nature of problems in the IT industry.	
		Compare and Contrast Careers in IT
		Positive Personal Qualities in the Workplace
		Teamwork and Collaboration
		Project Management Skills
		Export Data
		Algorithms
		Logic Problems
		Writing a Problem Statement
TS.7	Explain information systems theory and practice.	
		Information Technology
TS.8	Demonstrate knowledge of the underlying concepts of the information systems discipline.	
		The Four Areas of Information Technology Employment
		Compare and Contrast Careers in IT
		Entrepreneurship
		Assessment
		Lifelong Learning Skills
		Create a Professional Portfolio
		Communication Skills
		Positive Personal Qualities in the Workplace
		Diversity in the Workplace
		Postive Work Ethic
		Teamwork and Collaboration
		Project Management Skills
		Parts of an Email Message
		Appropriate Email Use
		Organizations
		Organizational Responsibilities
		Information Technology
		Job-Specific Math Skills
		IT Legal and Ethical Issues
		Wireless IT
		Computing Basics
		The Evolution of the Computer

Standard ID	Standard Text	Edgenuity Lesson Name
TS.8	Demonstrate knowledge of the underlying concepts of the information systems discipline.	
	(Cont'd.)	Hardware Input and Output
		Sound, Graphics, and Network Cards
		System Maintenance
		Upgrade Computer Hardware
		Network Basics
		Evolution of Networks
		Wireless Networks
		Network Administration
		History of the Internet
		Ethical Issues on the Internet
		Copyright and IP
		Search on the Internet
		Risks on the Internet
		Improving Network Security
		Software Overview
		Software Development
		Computer Operating Systems
		File Management
		File Management Tools
		Web Browsers
		Web Pages
		Investigate Web Design
		HTML Basics
		Create a Web Page
		Use CSS to Design a Web Page
		Add Images to a Web Page
		Publish to the Web
		Assessment in the Workplace
		Install the Software
		Spreadsheet Basics
		Use Spreadsheet Functions and Formulas
		Presentation Software
		Create a Presentation

Standard ID	Standard Text	Edgenuity Lesson Name
TS.8	Demonstrate knowledge of the underlying concepts of the information systems discipline. *(Cont'd.)*	Digital Images
		Create and Edit Images
		Digital Audio
		Audio Editing Techniques
		Digital Video
		Create a Multimedia Presentation
		Word Processing Software Basics
		Create and Format a Letter
		Format a Research Paper
		Create a Business Card and a Flyer
		Databases
		Database Software Basics
		Relating Fields and Records
		Creating a Database
		Locate and Sort Data
		Query Data
		Export Data
		Using Reports to Communicate Data
		Programming Overview
		Algorithms
		Programming Design
		Logic Problems
		Writing a Problem Statement
		Exploring a Problem and Communicating a Solution
		Using Flowcharts and Pseudocode
		Variables and Data Types
		Functions, Procedures, Arguments and Parameters
		Conditional Statements
		Iteration
		Internal Data Representation
		Integrated Development Environments
		Resources for Programmers
		Program with Variables

Standard ID	Standard Text	Edgenuity Lesson Name
TS.8	Demonstrate knowledge of the underlying concepts of the information systems discipline.	
	(Cont'd.)	Program with Functions and Arguments
		Testing and Fixing Code
		Use Conditional Statements
		Use Data Structures
		Use Iteration
		Readable Code
		Encode and Decode Text
		Types of Errors
		Debugging a Program
TS.9	Demonstrate knowledge of methods for achieving productivity in knowledge work.	
		Appropriate Email Use
		File Management
		File Management Tools
		Web Browsers
		Web Pages
		Investigate Web Design
		HTML Basics
		Create a Web Page
		Use CSS to Design a Web Page
		Add Images to a Web Page
		Publish to the Web
		Install the Software
		Spreadsheet Basics
		Use Spreadsheet Functions and Formulas
		Presentation Software
		Create a Presentation
		Digital Images
		Create and Edit Images
		Digital Audio
		Audio Editing Techniques
		Digital Video
		Create a Multimedia Presentation
		Word Processing Software Basics

Standard ID	Standard Text	Edgenuity Lesson Name
TS.9	Demonstrate knowledge of methods for achieving productivity in knowledge work.	
	(Cont'd.)	Create and Format a Letter
		Format a Research Paper
		Create a Business Card and a Flyer
		Databases
		Database Software Basics
		Relating Fields and Records
		Creating a Database
		Locate and Sort Data
		Query Data
		Export Data
		Using Reports to Communicate Data
		Programming Overview
		Algorithms
		Programming Design
		Logic Problems
		Writing a Problem Statement
		Exploring a Problem and Communicating a Solution
		Using Flowcharts and Pseudocode
		Variables and Data Types
		Functions, Procedures, Arguments and Parameters
		Conditional Statements
		Iteration
		Internal Data Representation
		Integrated Development Environments
		Resources for Programmers
		Program with Variables
		Program with Functions and Arguments
		Testing and Fixing Code
		Use Conditional Statements
		Use Data Structures
		Use Iteration
		Readable Code

Standard ID	Standard Text	Edgenuity Lesson Name
TS.9	Demonstrate knowledge of methods for achieving productivity in knowledge work. *(Cont'd.)*	Encode and Decode Text
		Types of Errors
		Debugging a Program
TS.10	Apply general systems theory to the analysis and development of an information system.	
		Information Technology
TS.11	Identify procedures for formal problem solving.	
		Teamwork and Collaboration
		Logic Problems
		Writing a Problem Statement
TS.12	Demonstrate knowledge of the fundamental concept of information theory and organizational system processes.	
		Organizations
		Organizational Responsibilities
		Information Technology
TS.13	Identify the essential properties of information systems.	
		Information Technology
TS.14	Explain information systems problem-solving techniques and approaches.	
		Writing a Problem Statement
TS.15	Evaluate information systems problem-solving techniques and approaches.	
TS.16	Explain the distinction between information and data.	
		Information Technology
		Databases
TS.17	Explain the meaning and scope of information technology.	
		Information Technology
TS.18	Explain the functions and limitations of computers in general terms.	
		Computing Basics
		The Evolution of the Computer
TS.19	Explain the purpose of gathering and managing information as an integral part of conducting business.	
		Information Technology
TS.20	Explain how information systems are used in different areas of business (customer service, inventory control, manufacturing and quality control, research and development, payroll, marketing, etc.)	
		Compare and Contrast Careers in IT
		Information Technology
		Wireless IT

Standard ID	Standard Text	Edgenuity Lesson Name
TS.21	Explore the issues of privacy and right of access to information.	
		Ethical Issues on the Internet
		Copyright and IP
		Search on the Internet
		Risks on the Internet
TS.22	Discuss ethics issues as they relate to information technology.	
		IT Legal and Ethical Issues
TS.23	Explain the main impacts of information technology on society and the workplace.	
		Information Technology
TS.24	Describe the main impacts of the Internet and multimedia on society, education and business.	
		Information Technology
		Job-Specific Math Skills
		History of the Internet
TS.25	Explain the evolution of computing system architectures.	
		The Evolution of the Computer
		Network Basics
		History of the Internet
TS.26	Discuss the trends in information technology hardware and software.	
		Hardware Input and Output
		Sound, Graphics, and Network Cards
		System Maintenance
		Upgrade Computer Hardware
		Software Overview
		Software Development
		Computer Operating Systems
TS.27	Explain the main advantages and disadvantages of different system architectures.	
		Computer Operating Systems
TS.28	Conduct a simple cost/benefit analysis for different systems in different business environments.	
TS.29	Explain the key differences and tradeoffs between centralized and decentralized information systems.	
		Evolution of Networks
		Network Administration

Standard ID	Standard Text	Edgenuity Lesson Name
TS.30	Explore the cost and benefit issues involved in purchasing or upgrading a computer system.	
		Hardware Input and Output
		Sound, Graphics, and Network Cards
		System Maintenance
		Upgrade Computer Hardware
TS.31	Explain the impact on efficiency during the transition to a new information system.	
		Upgrade Computer Hardware
		Wireless Networks
TS.32	Generate recommendations for the design of information systems for specific business needs and environments.	
		Wireless Networks
		Network Administration
TS.33	Explain the concepts of technology patenting, copyrighting and software licensing.	
		Copyright and IP
TS.34	Explain the projected impact of the Internet on computer systems and applications.	
		Search on the Internet
		Risks on the Internet
		Improving Network Security
H	Hardware	
H.1	Describe current and emerging computer architecture; configure, install, and upgrade hardware; diagnose and repair hardware problems.	
		The Evolution of the Computer
		Hardware Input and Output
		Sound, Graphics, and Network Cards
		System Maintenance
		Upgrade Computer Hardware
H.2	Describe interrelationships between hardware components and supportive software.	
		Computing Basics
		The Evolution of the Computer
		Hardware Input and Output
		Sound, Graphics, and Network Cards
		System Maintenance
		Upgrade Computer Hardware
		Software Overview
		Software Development
		Computer Operating Systems

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Standard ID	Standard Text	Edgenuity Lesson Name
H.3	Diagnose hardware and supportive software problems.	
		Computing Basics
		System Maintenance
H.4	Identify and use appropriate help resources (e.g., help desks, online help, and manuals) to install, configure, upgrade, diagnose, and repair hardware and solve supportive software problems.	
		Postive Work Ethic
H.5	Evaluate the effectiveness of hardware components to solve specific problems.	
		System Maintenance
H.6	Explain the fundamentals of operating systems.	
		Upgrade Computer Hardware
H.7	Identify major operating system fundamentals and components.	
		Computer Operating Systems
H.8	Explain the role of number systems in information systems.	
		Information Technology
		Job-Specific Math Skills
		Computing Basics
H.9	Identify the role the binary and hexadecimal system in information systems.	
		The Evolution of the Computer
H.10	Demonstrate knowledge of number systems and internal data representation.	
		Computing Basics
H.11	Identify computer classifications and hardware.	
		Upgrade Computer Hardware
H.12	Identify major hardware components and their functions.	
		Hardware Input and Output
H.13	Identify the hardware associated with telecommunications functions.	
		System Maintenance
H.14	Identify types of computer storage devices.	
		Hardware Input and Output
H.15	Describe elements and types of information processing.	
		Computing Basics
H.16	Identify the elements of the information processing cycle (i.e., input, process, output, and storage).	
		Computing Basics

Standard ID	Standard Text	Edgenuity Lesson Name
H.17	Identify types of processing (e.g., batch, interactive, event-driven, object-oriented).	Computer Operating Systems
H.18	Use available reference tools as appropriate.	Search on the Internet
H.19	Access needed information using company and manufacturers' references (e.g., procedural manuals, documentation, standards, work flowcharts).	Resources for Programmers
H.20	Describe the function of CPUs.	Computing Basics
H.21	Diagram, label and describe the functions of the components of a PC system.	Hardware Input and Output System Maintenance
H.22	Install, upgrade and configure hardware.	Upgrade Computer Hardware
H.23	Collect and analyze system information.	File Management File Management Tools
H.24	Describe and use appropriate safety precautions when working with PCs.	System Maintenance Improving Network Security
H.25	Explain how hardware components interact and how conflicts arise.	Hardware Input and Output System Maintenance
H.26	Identify and address various error messages and symptoms of hardware failures.	System Maintenance
H.27	Identify and perform preventative maintenance procedures.	System Maintenance Upgrade Computer Hardware
H.28	Install and configure peripheral devices such as mice and printers.	Sound, Graphics, and Network Cards
H.29	Access and configure the CMOS set up.	Hardware Input and Output Computer Operating Systems
H.30	Perform advanced preventative maintenance for hard disks using utilities software.	System Maintenance

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Standard ID	Standard Text	Edgenuity Lesson Name
H.31	Research and document solutions to error messages or symptoms of a hardware problem.	
		System Maintenance
OS	Operating Systems	
OS.1	Identify, evaluate, select, install, use, upgrade, customize, and diagnose and solve problems with various types of operating systems, environments, and utilities.	
		Software Overview
		Software Development
		Computer Operating Systems
OS.2	Describe various types of operating systems, environments, and utilities.	
		Computer Operating Systems
OS.3	Compare and contrast the functions, features, and limitations of different operating systems, environments, and utilities.	
		Computer Operating Systems
OS.4	Select operating systems, environments, and utilities appropriate for specific hardware, software, and tasks.	
		Computer Operating Systems
OS.5	Identify and use appropriate help resources (e.g., help desks, online help, and manuals) to install, configure upgrade, diagnose, and repair operating systems, environments, and utilities.	
		Postive Work Ethic
OS.6	Employ IT knowledge and procedures when configuring or modifying an operating system to ensure optimal system functioning.	
		Upgrade Computer Hardware
OS.7	Configure/modify system as needed.	
		System Maintenance
		Upgrade Computer Hardware
OS.8	Secure needed supplies and resources.	
		Postive Work Ethic
OS.9	Review automated scheduling software.	
		Software Development
OS.10	Identify data requirements.	
		Appropriate Email Use
		Sound, Graphics, and Network Cards
OS.11	Use operating system principles to ensure optimal system function.	
		Computer Operating Systems
OS.12	Apply basic commands of operating system software.	
		Computer Operating Systems

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Standard ID	Standard Text	Edgenuity Lesson Name
OS.13	Apply appropriate file and disk management techniques.	
		File Management
		File Management Tools
OS.14	Employ desktop operating skills.	
		Create a Business Card and a Flyer
OS.15	Handle materials and equipment in a responsible manner.	
		Network Administration
OS.16	Follow power-up and log-on procedures.	
		Hardware Input and Output
OS.17	Interact with/respond to system messages using console device.	
		Use CSS to Design a Web Page
OS.18	Follow log-off and power-down procedure(s).	
		System Maintenance
OS.19	Use available reference tools as appropriate.	
		Resources for Programmers
OS.20	Access needed information using appropriate reference materials.	
		Resources for Programmers
OS.21	Document procedures and actions.	
		System Maintenance
		Upgrade Computer Hardware
OS.22	Develop audit trails.	
OS.23	Configure systems to provide optimal system interfaces.	
		System Maintenance
OS.24	Perform standard computer backup procedures to protect IT information.	
		File Management
OS.25	Explain the need for regular backup procedures.	
		File Management
OS.26	Recognize the need for regular backup procedures.	
		File Management
		File Management Tools
OS.27	Configure, perform and maintain backup procedures.	
		File Management
		File Management Tools

Standard ID	Standard Text	Edgenuity Lesson Name
OS.28	Load backup software.	
OS.29	Load compression drive backup software.	
		Digital Images
OS.30	Install surge suppression protection.	
		System Maintenance
OS.31	Identify battery backup equipment.	
OS.32	Maintain battery backup system.	
SA	Software Applications	
SA.1	Identify, evaluate, select, install, use, upgrade, and customize application software; diagnose and solve problems resulting from an application software's installation and use.	
		Upgrade Computer Hardware
		Software Overview
SA.2	Identify the types of application software and explain the purpose or use of each.	
		Software Overview
		Software Development
SA.3	Use online and offline help to learn software.	
		Software Development
		Computer Operating Systems
SA.4	Select and apply the appropriate application software to common tasks.	
		Software Overview
		Computer Operating Systems
SA.5	Use application software reference materials (e.g., online help, vendor Web sites, tutorials, and manuals).	
		Resources for Programmers
SA.6	Use online databases, Web-based sources, and other information sources to access and retrieve information.	
		Resources for Programmers
SA.7	Evaluate the effectiveness of software to solve specific problems.	
		Software Overview
SA.8	Import and export text, data, sound, video, and still images between software programs.	
		Add Images to a Web Page
		Create a Multimedia Presentation
		Locate and Sort Data
SA.9	Explain the key functions and applications of software.	
		Database Software Basics

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Standard ID	Standard Text	Edgenuity Lesson Name
SA.10	Demonstrate knowledge of the key functions of systems software.	Software Overview Software Development Use Spreadsheet Functions and Formulas
SA.11	Demonstrate knowledge of widely used software applications (e.g., word processing, database management, spreadsheet development).	Computer Operating Systems Use Spreadsheet Functions and Formulas Word Processing Software Basics Creating a Database
SA.12	Demonstrate knowledge of the function and operation of compilers and interpreters.	Programming Overview
SA.13	Demonstrate knowledge of the range of languages used in software development.	Software Development
SA.14	Demonstrate knowledge of how data is organized in software development.	Software Development
SA.15	Identify new and emerging classes of software.	Software Development
SA.16	Verify that software to be installed is licensed prior to performing installation.	Software Overview
SA.17	Verify conformance to licensing agreement.	Software Overview Software Development
SA.18	Understand the concept of an End User License Agreement (EULA).	Software Overview
SA.19	Differentiate between open source and proprietary licenses.	Software Overview
SA.20	Explain the concept of open source.	Software Overview
SA.21	Identify common characteristics of open source licensing agreements, including the GNU General Public License (GPL).	Software Overview
SA.22	Perform installation accurately and completely, using available resources as needed.	Resources for Programmers

Standard ID	Standard Text	Edgenuity Lesson Name
SA.23	Install given application/system software on various platforms in accordance with manufacturer's procedures.	
		Software Development
		Presentation Software
		Word Processing Software Basics
		Database Software Basics
		Integrated Development Environments
		Resources for Programmers
SA.24	Disable/uninstall software that may interfere with installation of new software.	
		Software Overview
SA.25	Differentiate between procedures for an upgrade and for a new installation.	
		Software Overview
SA.26	Differentiate between stand-alone and network installation procedures.	
		Software Overview
		Software Development
SA.27	Select appropriate installation options (e.g., default, customized).	
		Software Overview
		Software Development
SA.28	Configure software to appropriate operating system settings.	
		Software Development
		Presentation Software
		Word Processing Software Basics
		Database Software Basics
		Integrated Development Environments
		Resources for Programmers
SA.29	Configure macros, tools, and packages to accomplish simple organizational and personal tasks.	
		Software Development
		Presentation Software
		Word Processing Software Basics
		Database Software Basics
SA.30	Convert data files if required.	
		Programming Overview
SA.31	Verify software installation and operation.	
		Risks on the Internet

Standard ID	Standard Text	Edgenuity Lesson Name
SA.32	Resolve problems with installation if they occur.	
		Risks on the Internet
SA.33	Troubleshoot unexpected results.	
		Network Administration
		Create a Presentation
		Testing and Fixing Code
		Debugging a Program
SA.34	Access needed help using manufacturers' technical help lines or Internet sites.	
		Resources for Programmers
SA.35	Formulate new installation procedure if needed.	
		System Maintenance
SA.36	Perform customization as requested.	
		Software Overview
		Export Data
		Using Reports to Communicate Data
SA.37	Customize software to meet user preferences.	
		Software Overview
		Export Data
		Using Reports to Communicate Data
SA.38	Document procedures, using clear and effective notes, for future use.	
		Appropriate Email Use
		Assessment in the Workplace
SA.39	Document step-by-step installation and configuration procedures.	
		Appropriate Email Use
SA.40	Analyze and inventory hardware and software to determine compatibility.	
		Software Overview
SA.41	Install new software on standalone computers.	
		Software Overview
SA.42	Install software in DOS and a variety of Windows type environments.	
		Software Development
SA.43	Read and follow documentation that accompanies software products.	
		Software Overview
		Software Development

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Standard ID	Standard Text	Edgenuity Lesson Name
SA.44	Install software using default options.	
		Software Overview
SA.45	Install software using customize options.	
		Software Overview
SA.46	Modify software configuration to meet user needs and preferences.	
		Software Overview
SA.47	Troubleshoot unexpected results during installation procedure and formulate a resolution plan.	
		System Maintenance
		Network Administration
SA.48	Install application and system software on a variety of platforms.	
		Software Development
		Presentation Software
		Word Processing Software Basics
		Database Software Basics
SA.49	Develop an installation plan minimizing impact on system and user.	
		Software Development
TC	Technical Communication	
TC.1	Gather, evaluate, use, and cite information from information technology sources.	
		Resources for Programmers
TC.2	Cite sources of all types of data.	
		Software Development
		Format a Research Paper
		Using Reports to Communicate Data
		Writing a Problem Statement
TC.3	Analyze the effectiveness of online information resources to support collaborative tasks, research, publications, communications, and increased productivity.	
		Software Development
		Format a Research Paper
		Using Reports to Communicate Data
		Writing a Problem Statement
TC.4	Use technology to enhance the effectiveness of communication.	
		Format a Research Paper
		Using Reports to Communicate Data
		Writing a Problem Statement

Standard ID	Standard Text	Edgenuity Lesson Name
TC.5	Discuss and identify ways to keep business data secure from theft and destruction.	
		Improving Network Security
TC.6	Use electronic messaging technologies to communicate.	
		Communication Skills
		Positive Personal Qualities in the Workplace
		Parts of an Email Message
		Appropriate Email Use
TC.7	Apply the rules of electronic messaging etiquette.	
		Appropriate Email Use
TC.8	Evaluate messages and select the appropriate technology for transmitting them.	
		Communication Skills
		Positive Personal Qualities in the Workplace
		Appropriate Email Use
TC.9	Discuss appropriate online behavior.	
		Appropriate Email Use
		Ethical Issues on the Internet
TC.10	Explain data communications procedures, equipment and media.	
		Parts of an Email Message
		Ethical Issues on the Internet
		Copyright and IP
		Search on the Internet
		Software Overview
		File Management
		File Management Tools
		Create a Web Page
		Publish to the Web
		Spreadsheet Basics
		Create a Presentation
		Digital Images
		Digital Audio
		Digital Video
		Create a Multimedia Presentation
		Word Processing Software Basics
		Format a Research Paper

Standard ID	Standard Text	Edgenuity Lesson Name
TC.10	Explain data communications procedures, equipment and media.	
	(Cont'd.)	Databases
		Using Reports to Communicate Data
		Algorithms
		Programming Design
		Logic Problems
		Using Flowcharts and Pseudocode
		Functions, Procedures, Arguments and Parameters
		Iteration
TC.11	Demonstrate knowledge of key communications procedures.	
		Appropriate Email Use
		File Management
		File Management Tools
		Web Browsers
		Web Pages
		Investigate Web Design
		Create a Web Page
		Use CSS to Design a Web Page
		Publish to the Web
		Spreadsheet Basics
		Use Spreadsheet Functions and Formulas
		Presentation Software
		Digital Images
		Create and Edit Images
		Digital Audio
		Audio Editing Techniques
		Digital Video
		Create a Multimedia Presentation
		Create and Format a Letter
		Format a Research Paper
		Databases
		Database Software Basics
		Relating Fields and Records
		Creating a Database

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Standard ID	Standard Text	Edgenuity Lesson Name
TC.11	Demonstrate knowledge of key communications procedures.	
	(Cont'd.)	Locate and Sort Data
		Query Data
		Export Data
		Using Reports to Communicate Data
		Algorithms
		Programming Design
		Writing a Problem Statement
		Exploring a Problem and Communicating a Solution
		Using Flowcharts and Pseudocode
		Variables and Data Types
		Functions, Procedures, Arguments and Parameters
		Conditional Statements
		Internal Data Representation
		Integrated Development Environments
		Resources for Programmers
		Program with Variables
		Program with Functions and Arguments
		Testing and Fixing Code
		Use Conditional Statements
		Use Data Structures
		Use Iteration
		Encode and Decode Text
		Debugging a Program
TC.12	Demonstrate knowledge of the uses of data communication equipment.	
		Parts of an Email Message
		Appropriate Email Use
		Wireless IT
		Computing Basics
		The Evolution of the Computer
		Hardware Input and Output
		Sound, Graphics, and Network Cards
		System Maintenance
		Upgrade Computer Hardware

Standard ID	Standard Text	Edgenuity Lesson Name
TC.12	Demonstrate knowledge of the uses of data communication equipment.	
	(Cont'd.)	Network Basics
		Evolution of Networks
		Wireless Networks
		Network Administration
		Copyright and IP
		Search on the Internet
		Risks on the Internet
		Improving Network Security
		Software Overview
		Software Development
		Computer Operating Systems
		File Management
		File Management Tools
		Web Browsers
		Web Pages
		Investigate Web Design
		HTML Basics
		Create a Web Page
		Use CSS to Design a Web Page
		Add Images to a Web Page
		Publish to the Web
		Use Spreadsheet Functions and Formulas
		Create a Presentation
		Create and Edit Images
		Create a Multimedia Presentation
		Creating a Database
		Locate and Sort Data
		Using Flowcharts and Pseudocode
		Use Conditional Statements
		Use Data Structures
		Use Iteration

Standard ID	Standard Text	Edgenuity Lesson Name
TC.13	Demonstrate knowledge of types of communications media.	
		Parts of an Email Message
		Appropriate Email Use
		File Management
		File Management Tools
		Use CSS to Design a Web Page
		Add Images to a Web Page
		Publish to the Web
		Create a Multimedia Presentation
		Word Processing Software Basics
		Databases
		Using Reports to Communicate Data
		Resources for Programmers
TC.14	Demonstrate knowledge of data transmission codes and protocols.	
		Appropriate Email Use
		File Management Tools
		Publish to the Web
		Create a Presentation
		Create a Multimedia Presentation
		Word Processing Software Basics
		Create and Format a Letter
		Format a Research Paper
		Create a Business Card and a Flyer
		Relating Fields and Records
		Creating a Database
		Using Reports to Communicate Data
		Using Flowcharts and Pseudocode
		Use Conditional Statements
		Use Data Structures
		Readable Code
		Encode and Decode Text
		Types of Errors
		Debugging a Program

Standard ID	Standard Text	Edgenuity Lesson Name
TC.15	Distinguish between local area networks and wide-area networks.	
		Network Basics
		Evolution of Networks
		Wireless Networks
		Network Administration
TC.16	Identify data communication trends.	
		Communication Skills
		Appropriate Email Use
		Wireless Networks
		Publish to the Web
		Using Reports to Communicate Data
		Programming Overview
		Logic Problems
		Writing a Problem Statement
		Exploring a Problem and Communicating a Solution
		Using Flowcharts and Pseudocode
		Variables and Data Types
		Functions, Procedures, Arguments and Parameters
		Conditional Statements
		Internal Data Representation
		Integrated Development Environments
		Use Conditional Statements
		Use Data Structures
		Use Iteration
TC.17	Identify major current issues in data communications.	
		Communication Skills
		Appropriate Email Use
		Risks on the Internet
		Improving Network Security
		Publish to the Web

Standard ID	Standard Text	Edgenuity Lesson Name
D	Databases	
D.1	Populate (enter data into) and edit fields and records.	
		Publish to the Web
		Create a Presentation
		Create a Multimedia Presentation
		Create and Format a Letter
		Create a Business Card and a Flyer
		Using Flowcharts and Pseudocode
		Use Conditional Statements
		Use Data Structures
		Use Iteration
D.2	Describe search strategies and use them to solve common information problems.	
		Use Spreadsheet Functions and Formulas
		Locate and Sort Data
		Writing a Problem Statement
		Exploring a Problem and Communicating a Solution
		Encode and Decode Text
		Types of Errors
D.3	Sort and retrieve data from databases.	
		Locate and Sort Data
D.4	Explain the nature and interrelationships of bytes, fields, records, and databases.	
		Computing Basics
		The Evolution of the Computer
D.5	Present the basic principles of database theory and database organization.	
		Databases
		Database Software Basics
		Relating Fields and Records
		Using Reports to Communicate Data
D.6	Present and discuss issues of database and server security.	
		Locate and Sort Data
D.7	Explain database design concepts and define database components.	
		Using Reports to Communicate Data
D.8	Utilize relational databases effectively.	
		Using Reports to Communicate Data

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Standard ID	Standard Text	Edgenuity Lesson Name
D.9	Design simple database structures.	
		Creating a Database
D.10	Create and edit tables.	
		Query Data
		Export Data
		Algorithms
		Logic Problems
		Functions, Procedures, Arguments and Parameters
D.11	Identify and create relationships between tables.	
		Using Reports to Communicate Data
D.12	Create and modify simple queries.	
		Query Data
D.13	Explain the different types of queries and their purpose.	
		Query Data
D.14	Use appropriate Boolean functions (AND, OR, NOT) in designing query statements.	
		Query Data
D.15	Create, modify and customize simple reports.	
		Use Spreadsheet Functions and Formulas
		Create a Presentation
		Create and Edit Images
		Create a Multimedia Presentation
		Format a Research Paper
		Using Reports to Communicate Data
D.16	Create, modify and customize simple forms.	
		Create and Format a Letter
		Create a Business Card and a Flyer
D.17	Import and export database information from and to other applications.	
		Publish to the Web
		Export Data
D.18	Explain the use of databases and information in the business environment.	
		Using Reports to Communicate Data

Standard ID	Standard Text	Edgenuity Lesson Name
D.19	Develop database business applications.	
		Databases
		Database Software Basics
		Relating Fields and Records
		Creating a Database
		Locate and Sort Data
		Query Data
		Export Data
		Using Reports to Communicate Data
D.20	Establish different levels of user access for reading and entering data into a database.	
		Internal Data Representation
		Integrated Development Environments
		Resources for Programmers
I	Internet	
I.1	Describe Internet protocols.	
		Appropriate Email Use
		Ethical Issues on the Internet
		Copyright and IP
I.2	Demonstrate knowledge of the Transmission Control Protocol/Internet Protocol (TCP/IP) suite.	
		IT Legal and Ethical Issues
I.3	Demonstrate knowledge of management protocols, applications and procedures (e.g., SNMP, intrusion detection, and reporting issues).	
		History of the Internet
I.4	Explain the concept of routing.	
		Evolution of Networks
I.5	Explain Domain Name Server (DNS).	
		Web Browsers
		Web Pages
		Publish to the Web
I.6	Demonstrate knowledge of the Domain Name System (DNS).	
		Web Browsers
		Web Pages
		Publish to the Web

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Standard ID	Standard Text	Edgenuity Lesson Name
I.7	Explain the DNS hierarchy.	
		Network Basics
		Web Browsers
		Web Pages
I.8	Identify elements of DNS (e.g., zones, server types).	
		Publish to the Web
I.9	Summarize Internet security issues and systems available for addressing them.	
		Ethical Issues on the Internet
		Risks on the Internet
		Improving Network Security
I.10	Access and use Internet services when completing IT related tasks to service and update IT systems.	
		History of the Internet
		Search on the Internet
		Software Development
		Investigate Web Design
		Word Processing Software Basics
I.11	Demonstrate the use of an Internet connection.	
		Software Development
		Computer Operating Systems
I.12	Configure a small home office Internet connection using cable, DSL, wireless or satellite connection.	
		Evolution of Networks
I.13	Test Internet connection using tools such as ping, trace route, net stat, host, dig, and nslookup.	
		System Maintenance
I.14	Troubleshoot Internet connection problems.	
		System Maintenance
		Network Administration
I.15	Demonstrate knowledge of the components of Internet software.	
		History of the Internet
		Software Overview
		Software Development
I.16	Install Internet software for use on an operating system.	
		Software Development
I.17	Identify common browser features.	
		Web Browsers

Standard ID	Standard Text	Edgenuity Lesson Name
I.18	Install Internet software.	
		Install the Software
I.19	Differentiate between Web-based applications and applications installed on a local computer.	
		Web Pages
I.20	Download software upgrades and shareware from the Internet.	
		Install the Software
I.21	Unpack files using compression software.	
		Digital Images
I.22	Demonstrate acute awareness of virus protection techniques.	
		System Maintenance
I.23	Identify types and capabilities of popular virus protection software.	
		System Maintenance
I.24	Explain spyware, pop ups, adware, and malware.	
		System Maintenance
I.25	Identify how to avoid spyware, adware, and malware and how to recover from infection.	
		System Maintenance
I.26	Demonstrate knowledge of cookies and their use on an internet-connected computer system.	
		Improving Network Security
I.27	Demonstrate knowledge of Web page basics to build an understanding of Web page design and functioning.	
		Web Pages
		Investigate Web Design
		HTML Basics
		Create a Web Page
I.28	Explain the features and functions of Web browsing software.	
		Software Overview
		Web Browsers
I.29	Demonstrate knowledge of the role of browsers in reading files on the World Wide Web (text-only, hypertext).	
		Web Browsers
I.30	Identify how different browsers affect the look of a web page.	
		Web Browsers
		Web Pages
I.31	Demonstrate knowledge of the characteristics and uses of plug-ins.	
		Investigate Web Design

Standard ID	Standard Text	Edgenuity Lesson Name
I.32	Explain the features and functions of Web page design software.	
		Software Overview
		Create a Web Page
I.33	Compare/contrast the features and functions of software editors available for designing web pages.	
		Software Overview
		Create a Web Page
I.34	Differentiate between a client and a server.	
		Network Basics
I.35	Explain how traditional and modern Internet clients exploit the client/server relationship.	
		Network Basics
		Evolution of Networks
		Wireless Networks
		Network Administration
I.36	Demonstrate knowledge of how bandwidths affect data transmission and on-screen image.	
		History of the Internet
I.37	Compare the advantages and disadvantages of internal/external web hosting.	
		Network Basics
		Wireless Networks
E	Email	
E.1	Describe and explain the purpose and basic features of e-mail systems.	
		Parts of an Email Message
E.2	Create short, simple, concise messages.	
		Parts of an Email Message
		Appropriate Email Use
E.3	Send, receive, reply, forward, save and delete messages.	
		Parts of an Email Message
		Appropriate Email Use
E.4	Create, send and save attachments.	
		Parts of an Email Message
		Appropriate Email Use
E.5	Use the login and password system.	
		Parts of an Email Message
		Appropriate Email Use
		IT Legal and Ethical Issues

Standard ID	Standard Text	Edgenuity Lesson Name
E.6	Print messages, documents and files.	
		Appropriate Email Use
E.7	Create, save and use distribution lists.	
		Appropriate Email Use
E.8	Explain and use priority levels on messages.	
		Appropriate Email Use
E.9	Explain and actively follow guidelines for legal usage.	
		Appropriate Email Use
E.10	Develop a folder for saved messages and documents, and organize messages.	
		Appropriate Email Use
E.11	Access e-mail system support help facilities and e-mail tools.	
		Appropriate Email Use
E.12	Explain and use appropriate e-mail etiquette.	
		Appropriate Email Use
E.13	Use e-mail appropriately according to organization guidelines.	
		Appropriate Email Use
E.14	Use e-mail options such as "reply requested" and "out-of-office reply"	
		Parts of an Email Message
E.15	Explain the issues of virus contamination through e-mail, and discuss protection strategies.	
E.16	Explain the role of e-mail as an integral part of the organization communication system	
		Appropriate Email Use
E.17	Recognize data integrity and security issues which affect e-mail usage.	
		Appropriate Email Use
P	Programming	
P.1	Identify and explain the function of common programming structures.	
		Algorithms
		Programming Design
		Logic Problems
		Using Flowcharts and Pseudocode
		Functions, Procedures, Arguments and Parameters
		Conditional Statements
		Iteration
		Program with Variables
		Program with Functions and Arguments

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Standard ID	Standard Text	Edgenuity Lesson Name
P.2	Choose the appropriate language or application development tool for the task.	
		Programming Design
		Resources for Programmers
P.3	Explain the purpose and applications of computer programs.	
		Programming Overview
		Programming Design
P.4	Describe and explain the steps of program development and program life cycle.	
		Writing a Problem Statement
P.5	Describe and explain the main differences between programming languages and programming styles.	
		Programming Overview
		Programming Design
P.6	Explain the main features of the different programming languages.	
		Programming Overview
P.7	Explain the principles and process of program design.	
		Programming Design
		Writing a Problem Statement
		Exploring a Problem and Communicating a Solution
P.8	Explain the principles of project-oriented programming style.	
		Programming Design
P.9	Describe the functions of programming tools.	
		Using Flowcharts and Pseudocode
P.10	Describe the required formats for and explain the purpose of data types, variables and arrays.	
		Variables and Data Types
		Program with Variables
P.11	Describe the different types of controls and commands, and explain their purpose.	
		Functions, Procedures, Arguments and Parameters
		Conditional Statements
		Iteration
		Program with Functions and Arguments
P.12	Explain operators, functions and procedures.	
		Functions, Procedures, Arguments and Parameters
		Conditional Statements
		Iteration
		Program with Functions and Arguments

Standard ID	Standard Text	Edgenuity Lesson Name
P.13	Explain and appropriately use different decision and looping structures	
		Iteration
		Use Iteration
P.14	Develop accurate program flow charts.	
		Using Flowcharts and Pseudocode
P.15	Design, code and debug simple programs.	
		Writing a Problem Statement
		Exploring a Problem and Communicating a Solution
		Using Flowcharts and Pseudocode
		Functions, Procedures, Arguments and Parameters
		Integrated Development Environments
		Testing and Fixing Code
		Readable Code
		Encode and Decode Text
		Types of Errors
		Debugging a Program
P.16	Present and appropriately use debugging tools and principles.	
		Encode and Decode Text
		Types of Errors
		Debugging a Program
P.17	Explain and apply the documentation process throughout the program life cycle.	
		Programming Design
		Writing a Problem Statement
		Exploring a Problem and Communicating a Solution
		Using Flowcharts and Pseudocode
P.18	Document the design, development and testing process of a simple program.	
		Programming Design
		Writing a Problem Statement
		Exploring a Problem and Communicating a Solution
		Using Flowcharts and Pseudocode
		Testing and Fixing Code
SM	System Maintenance and Security	
SM.1	Recognize and analyze potential IT security threats to develop and maintain security requirements.	
		Risks on the Internet

Standard ID	Standard Text	Edgenuity Lesson Name
SM.2	Describe potential security threats to information systems.	Risks on the Internet
SM.3	Identify the range of security needs and the problems that can occur due to security lapses.	Risks on the Internet
SM.4	Assess exposure to security issues.	Risks on the Internet
SM.5	Implement security procedures in accordance with business ethics.	Improving Network Security
SM.6	Develop plans to address security threats.	Improving Network Security
SM.7	Maintain confidentiality.	
SM.8	Identify sources of virus infections.	Risks on the Internet Improving Network Security
SM.9	Remove viruses.	Improving Network Security
SM.10	Report viruses in compliance with company standards.	Improving Network Security
SM.11	Implement backup and recovery procedures.	System Maintenance
SM.12	Provide for user authentication and restricted access (e.g., assign passwords, access level).	Copyright and IP
SM.13	Document security procedures.	
SM.14	Maintain computer systems to ensure optimal IT system functioning.	Risks on the Internet Improving Network Security
SM.15	Create a query to extract information from a file.	Copyright and IP Risks on the Internet
SM.16	Create a query to extract information from multiple files.	Copyright and IP Risks on the Internet
SM.17	Create reports from queries.	Improving Network Security

Standard ID	Standard Text	Edgenuity Lesson Name
SM.18	Create and use logical files.	
		Improving Network Security
SM.19	Ensure that system is functioning optimally.	
		System Maintenance
SM.20	Monitor system status and performance.	
		System Maintenance
		Network Administration
SM.21	Run diagnostics.	
		Debugging a Program
SM.22	Respond to system messages.	
SM.23	Perform preventive maintenance procedures on computer and peripheral devices.	
		System Maintenance
SM.24	Optimize windows environment to maximize performance of desktop resources.	
		Sound, Graphics, and Network Cards
		Upgrade Computer Hardware
SM.25	Review automated scheduling software.	
		Software Overview
SM.26	Fix and document system problems.	
		Network Basics
SM.27	Fix recoverable problems.	
		Network Basics
		Network Administration
SM.28	Restore system.	
		System Maintenance
SM.29	Document computer system malfunction(s).	
		System Maintenance
SM.30	Document software malfunction(s).	
		Software Development
SM.31	Configure systems to provide optimal system interfaces.	
		Computer Operating Systems
SM.32	Configure peripheral device drivers (e.g., disk, display, printer, modem, keyboard, mouse, network).	
		Sound, Graphics, and Network Cards
SM.33	Apply advanced I/O concepts (e.g., disk caching, data compression, extended memory, magnetic disk/CD-ROM storage and formats).	
		Hardware Input and Output

Standard ID	Standard Text	Edgenuity Lesson Name
SM.34	Allocate disk space, non-sharable resources, and I/O devices.	
		Hardware Input and Output
N	Networking	
N.1	Apply basic networking terminology to a network environment.	
		Network Basics
		Evolution of Networks
		Wireless Networks
		Network Administration
		Copyright and IP
N.2	Identify network devices, including network connectivity hardware, and describe their functions.	
		Network Administration
N.3	Explain networking concepts and principles, and different network structures.	
		Wireless Networks
N.4	Present and explain the design and features of LAN and WAN systems.	
		Network Basics
N.5	Determine hardware requirements for a workstation operating system.	
		Hardware Input and Output
		Sound, Graphics, and Network Cards
N.6	Setup and configure a basic workstation connected to the network.	
		Computing Basics
		Hardware Input and Output
		Sound, Graphics, and Network Cards
N.7	Perform and document basic troubleshooting activities at the workstation level.	
		System Maintenance
N.8	Setup and configure network components such as network interface cards, printers and CD-ROM devices.	
		Hardware Input and Output
		Sound, Graphics, and Network Cards
N.9	Determine the type of network topology needed, such as peer-to-peer and server based.	
		Evolution of Networks
N.10	Explain the type of wiring needed for the physical connection of the network.	
		Wireless IT
		Network Basics

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Standard ID	Standard Text	Edgenuity Lesson Name
TP	Technology Purchasing	
TP.1	Plan the selection and acquisition of information technologies.	Information Technology
TP.2	Identify sources of information technology hardware and software.	Information Technology
		Upgrade Computer Hardware
TP.3	Identify sources for information technology hardware and software.	Upgrade Computer Hardware
TCES	Technology Careers, Ethics, and Safety	
TCES.1	Develop the technical and interpersonal skills and knowledge to support the user community.	The Four Areas of Information Technology Employment
		Compare and Contrast Careers in IT
TCES.2	Develop technical writing and communication skills to work effectively with diverse groups of people.	Communication Skills
TCES.3	Recognize the need to maintain technical currency and the need to grow professionally.	Lifelong Learning Skills
TCES.4	Design and implement risk management policies and procedures for information technology.	Ethical Issues on the Internet
		Risks on the Internet
		Improving Network Security
TCES.5	Adhere to safety and security policies (e.g., acceptable use policy, Web page policies, and student photo policies).	Ethical Issues on the Internet
		Improving Network Security
TCES.6	Adhere to federal and state laws that apply to safety and security, including laws pertaining to computer crime, fraud, and abuse.	Ethical Issues on the Internet
TCES.7	Describe, analyze, develop, and follow policies for managing privacy and ethical issues in organizations and in a technology-based society.	Ethical Issues on the Internet
		Improving Network Security
TCES.8	Adhere to and apply organization policies for privacy and intellectual property.	Improving Network Security

Standard ID	Standard Text	Edgenuity Lesson Name
TCES.9	Demonstrate legal and ethical behaviors when using information technology.	Ethical Issues on the Internet
TCES.10	Explain the consequences of illegal and unethical use of information technology.	Ethical Issues on the Internet
TCES.11	Identify and explain property, privacy, access, and accuracy issues pertaining to information technology, including the impact of these issues on individuals and organizations.	Ethical Issues on the Internet Copyright and IP
TCES.12	Describe positions and career paths in information technology.	The Four Areas of Information Technology Employment
TCES.13	Identify positions and career paths in the field of information technology.	The Four Areas of Information Technology Employment Compare and Contrast Careers in IT
TCES.14	Identify common tasks performed by information technology workers.	The Four Areas of Information Technology Employment
TCES.15	Describe education, experience, schools, and personal requirements for careers in information technology.	Compare and Contrast Careers in IT
TCES.16	Identify and recognize the benefits of industry certifications in various information technology fields.	Compare and Contrast Careers in IT
TCES.17	Describe techniques to identify criminal activity.	Ethical Issues on the Internet
TCES.18	Identify how one files a complaint if a cybercrime is suspected or has occurred.	
TCES.19	Explain legal issues faced by IT professionals.	Ethical Issues on the Internet
TCES.20	Demonstrate knowledge of the legal issues that face Information Technology professionals.	Ethical Issues on the Internet Copyright and IP Risks on the Internet
TCES.21	Identify issues and trends affecting computers and information privacy.	Improving Network Security
TCES.22	Explain legal issues involved in a company security policy.	Ethical Issues on the Internet

Standard ID	Standard Text	Edgenuity Lesson Name
TCES.23	Identify legal issues involved concerning a security breach.	
		Improving Network Security
TCES.24	Summarize the rights and responsibilities of IT workers.	
		Organizational Responsibilities
		Software Overview
TCES.25	Identify ethical issues common to the IT field.	
		Ethical Issues on the Internet
		Copyright and IP
		Risks on the Internet
		Improving Network Security