



Lesson Plan
Supports the Computer
Fundamentals Section
Within IC³
Certification Tests

Course: Job Skills/Computer Concepts CC/CCTE
 Unit: IC³ Certification –
 Computer Fundamentals
 Topic: How Can I Use Technology to Solve a
 Problem?
 Timeframe: 3.0 hours

<p>ESLR's</p> <ul style="list-style-type: none"> X #1 Communicating Effectively X #2 Accessing and Managing Job Related Resources X #3 Setting Career and Life Goals X #4 Accepting Personal Responsibility 	<p>California Career Technical Education Model Curriculum Standards: Information Support and Services Pathway</p> <p>A7.2 Evaluate the effectiveness of software to solve specific problems.</p> <p>Academic Standards: Grades Eleven and Twelve-Reading Comprehension E1.2 Apply knowledge of Greek, Latin, and Anglo-Saxon roots and affixes to draw inferences concerning the meaning of scientific and mathematical terminology.</p> <p>IC³ Certification Standard: Module 1 - Computer Fundamentals ■ Identify how to maintain computer equipment and solve common problems relating to computer hardware</p> <p>All Aspects of the Industry: Technical and Production Skills Technological systems being used in the workplace and their contributions to the product or service of the organization.</p>
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Application/ Activity	5 mins	<p><i>STUDENTS</i> Instruct students to turn on computer and launch the Internet.</p>	Student computers and a World Wide Web browser
	50 mins	<p><i>INSTRUCTOR/STUDENTS</i> Instructor will commence the lesson by having the students share with the class their experiences while using computer technology. Instructor will ask students to give additional examples of how technology is used in our society. Instructor will discuss various software programs and how they can be used to solve problems. Instructor will use other technologies for addressing/solving problems in our society, accentuating both e-mail and the World Wide Web. Instructor will ask questions on how to problem solve. Instructor will ask students how would they go about solving a problem or finding the answer to a question. Through an interactive discussion, students will identify possible problem solving solutions. After discussion, student will evaluate the solution and will then choose and implement the most common solution to solve the investigation. Not every student will come out with the same solution. Students will choose the solution that provides the best outcome, and once the solution is selected, the students will have it implemented.</p> <p>Students will be instructed to first, observe the Internet research and then after Instructor's direction, students will walk through the lesson with Instructor.</p> <p>Instructor begins lesson by:</p> <ol style="list-style-type: none"> 1. On the desktop, double click the Internet Explorer, symbolized by a letter e. or Netscape Navigator, symbolized by the letter N. 2. Click on the URL and type research topic. 3. A listing of possible matches will appear 4. Click closest topic to your research. 5. If not satisfied with the research results, student will move on to another search engine. 6. Click on the URL and type <i>Alta Vista, Ask Jeeves, Yahoo, etc.</i> 7. New browser will open. 8. Enter topic subject. 9. Click closest topic to your research. 10. If satisfied with the topic, commence investigation. 11. Obtain an outline. 12. Print material. 	Instructor Computer Digital Projector
	15 mins	<p>Students should present the printed document to their study group and discuss styles and presentation.</p> <p><i>INSTRUCTOR</i> To walk around the classroom to make sure all students mastered the Internet research project.</p>	

Closing	20 mins	<p><i>INSTRUCTOR will write the following questions on the board. Students will be given a three question Quick Quiz.</i></p> <ol style="list-style-type: none"> 1. What do we call the application of scientific discoveries to the production of goods and services that improve the human environment? <ul style="list-style-type: none"> A. Technology B. Information Technology C. Data Communications D. Computer Applications <p>Answer A</p> 2. What is the systematic approach of going from an initial situation to a desired situation, subject to some resource constraints? <ul style="list-style-type: none"> A. Investigation B. Problem solving C. Technology D. Logical guidelines <p>Answer B</p> 3. What software is designed to store and manipulate numeric data? <ul style="list-style-type: none"> A. Spreadsheet B. Database C. Presentation D. Word-Processing <p>Answer A</p> <p>Students will write in their daily journal their learning experience of the day. Students will submit Quick Quiz, and daily journal to instructor.</p>	Three questions Quick Quiz
Assessment/ Evaluation	20 mins 20 mins	<p><i>INSTRUCTOR/STUDENTS</i> Instructor will review the recent Internet investigations and discuss the facts and assist in problem solving via the Internet. Instructor will address the fact that the Internet has become a part of our daily lives and that research investigations are part of career essentials.</p> <p>Assessment will be established by the ability to answer the Quick Quiz questions and ability to explain to study group the possible investigation keywords for a possible search on the Internet. This project will be evaluated by using the attached rubric indicator.</p>	World Wide Web
Homework		<p><i>STUDENTS</i> Students will be instructed to create a Web Project – Students are to prepare a report on online learning. They are to include how computers are involved in this type of learning. As well, students are to read Vocabulary Review Lesson 7. Lesson 7 will be discussed the next day.</p>	Textbook, paper, Pen, Internet, Lesson 7 Vocabulary Summary

Lesson Rubric – Using Technology to Solve Problems

Introductory	Developing	Proficient	Exceptional
Able to utilize computer equipment with supervision. Uses a computer to run a few specific, pre-loaded programs.	Identifies some equipment and/or tools to complete a specific task. Able to open, create, modify and print documents. Able to open the Internet in several browsers.	Demonstrates Internet research efficacy by utilizing Directories and Index Browsers. Recognizes keyword searches and is able to integrate Boolean research language for more accurate investigation. Capable of printing whole pages or parts of a webpage. Recognizes character and GUI (Graphical User Interface) objects.	Recognizes a Mac and a PC computer. Familiarized with several Browsers, such as the Internet Explorer, Navigator, and Safari. Uses Directories and Indexes to locate accurate information on the Web. Integrates the Internet when developing assignments. Competent to add and organize Favorite files. Able to work with several documents simultaneously. Feels confident enough to teach others some advanced operations.

*adequate = satisfies requirements

Based on your examination of the portfolio entries and the dimensional scores, please review the overall (holistic) score levels described above, and give the portfolio a final, overall score. Please provide a justification for the overall score.

Overall Score: _____

Justification: _____

Student Name and/or ID Number: _____

School: _____ Evaluator: _____