

OUTCOMES BASED LEARNILNG MATRIX

Course: CTIM171 Computer Configuration and Hardware (3 credits, 60 hours)

Department: Computer Technology and Information Management

Description:

This course will cover personal computer components and configuration. This hands-on hardware approach is intended to provide the student with real-world exposure to computer repair and maintenance. The student will use system diagnostics to analyze and repair personal computer system faults. The emphasis will be on troubleshooting and replacing individual system components such as memory, hard drives, floppy drives, video cards, modems, and other components. Lecture: 2 hours, Laboratory: 2 hours.

Prerequisite: None

While completing the table below, remember that the individual outcomes you list in the first column should answer this question: **What must the learner know and be able to do at the end of the course?** Items in the third column should answer the question: **How do we know?** The second column is where teachers can be most creative; it's for pedagogy. Each rectangle in column one should contain just one outcome; the corresponding rectangles in columns two and three, however, may contain more than one item. Using the code at the end of the matrix, indicate the core competencies being strengthened by the outcomes activities and the assessment tools.

*COURSE OUTCOMES	OUTCOMES ACTIVITIES	ASSESSMENT TOOLS
At the end of this course students will have a basic understanding of computer configuration and	1. Examine/explore - History/Concept (CCT, IG OC, QL, IL, WC).	1. In Class: Labs (CCT, IG OC, QL, IL WC)

Approved by CTIM Department—September 2015

<p>hardware.</p> <p>1. Overview of the PC</p>	<p>2. Examine/explore - Construction (CCT, IG OC, QL, IL, WC).</p> <p>3. Examine/explore - Operation (CCT, IG OC, QL, IL WC).</p> <p>4. Examine/explore - Maintenance (CCT, IG OC, QL, IL WC).</p>	<p>2. Practice Quizzes:(Mid term) (CCT, IG OC, QL, IL WC)</p> <p>3. Digital Journals (CCT, IG QL, IL WC).</p>
<p>2. Motherboards, BIOS, Power Supplies</p>	<p>5. Examine/explore - History/Concept (CCT, IG OC, QL, IL WC).</p> <p>6. Examine/explore - Construction (CCT, IG OC, QL, IL WC).</p> <p>7. Examine/explore - Operation (CCT, IG OC, QL, IL WC).</p> <p>8. Examine/explore - Maintenance (CCT, IG OC, QL, IL WC).</p>	<p>1. In Class: Labs (CCT, IG OC, QL, IL WC)</p> <p>2. Practice Quizzes:(Mid term) (CCT, IG QL, IL WC)</p> <p>3. Digital Journals (CCT, IG QL, IL WC)</p>
<p>3. Microprocessors</p>	<p>4. Examine/explore - History/Concept (CCT, IG OC, QL, IL WC).</p> <p>5. Examine/explore - Construction (CCT, IG OC, QL, IL WC).</p> <p>6. Examine/explore - Operation (CCT, IG OC, QL, IL WC).</p> <p>7. Examine/explore - Maintenance (CCT, IG OC,</p>	<p>1. In Class: Labs (CCT, IG OC, QL, IL WC)</p> <p>2. Practice Quizzes:(Mid term) (CCT, IG QL, IL WC)</p> <p>3. Digital Journals (CCT, IG QL, IL WC)</p>

	QL, IL WC).	
4. RAM	<p>4. Examine/explore - History/Concept (CCT, IG OC, QL, IL WC).</p> <p>5. Examine/explore - Construction (CCT, IG OC, QL, IL WC).</p> <p>6. Examine/explore - Operation (CCT, IG OC, QL, IL WC).</p> <p>7. Examine/explore - Maintenance (CCT, IG OC, QL, IL WC).</p>	<p>1. In Class: Labs (CCT, IG OC, QL, IL WC)</p> <p>2. Practice Quizzes:(Final) (CCT, IG QL, IL WC)</p> <p>3. Digital Journals (CCT, IG QL, IL WC)</p>
5. Hard drives	<p>4. Examine/explore - History/Concept (CCT, IG OC, QL, IL WC).</p> <p>5. Examine/explore - Construction (CCT, IG OC, QL, IL WC).</p> <p>6. Examine/explore - Operation (CCT, IG OC, QL, IL WC).</p> <p>7. Examine/explore - Maintenance (CCT, IG OC, QL, IL WC).</p>	<p>1. In Class: Labs (CCT, IG OC, QL, IL WC)</p> <p>2. Practice Quizzes:(Final) (CCT, IG QL, IL WC)</p> <p>3. Digital Journals (CCT, IG QL, IL WC)</p>
6. Troubleshooting	<p>4. Examine/explore - History/Concept (CCT, IG OC, QL, IL WC).</p> <p>5. Examine/explore - Construction (CCT, IG OC, QL, IL WC).</p>	<p>1. In Class: Labs (CCT, IG OC, QL, IL WC)</p> <p>2. Practice Quizzes:(Final) (CCT, IG QL, IL WC)</p>

	6. Examine/explore - Operation (CCT, IG OC, QL, IL WC). 7. Examine/explore - Maintenance (CCT, IG OC, QL, IL WC).	3. Digital Journals (CCT, IG QL, IL WC)
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*Try to express an outcome as an infinitive phrase that concludes this sentence: **At the end of the course, the students should be able to . . .** Finding the line between too general and too specific can be difficult. In an English Composition course, for instance, it is probably too general to say, "The student should be able to write effective essays." It is probably too specific to say, "The student should be able to write an introductory paragraph of at least 50 words, containing an attention-getting device, an announcement of the narrowed topic, and an explicit thesis sentence." Just right might read, "The student will write introductions that gather attention and focus the essay."

**Indicate the Core Competencies that apply to the outcomes activities and assessment tools: critical and creative thinking (CCT); oral communications (OC); quantitative literacy (QL); information literacy (IL); written communication (WC); civic engagement (CE); integrative learning (IG); global learning (GL).