SkillsCommons Manufacturing Editorial Board

MERLOT – SKILLSCOMMONS Peer Reviewer Report Form (V 52218)

Name of Learning Material:	CBCC: Solid State Electronics
SKILLSCOMMONS URL:	https://www.skillscommons.org/handle/taaccct/8701
Learning Material URL:	
Reviewer's Name:	Robert E. Speckert
Date Review Completed:	28-Jun-18
Review Time Required:	2.5HRS
Rejected? Y/N	**N**
Description	This course makes extensive use of publicly available web sites. Most are animations, simulations, text, and graphics. Some links are broken(e.g., Unit 2 line 5 and 11).
1. Overview: Describe overview, features and descriptions, uses, and applications. Include cost, if any for apps	Competency-Based Curricula & Credentials. This collection of coursework for Solid State Electronics was developed by specialized subject matter experts from industry and educational institutions. Documents in this collection cover various topics of Solid State Electronics, including: Atomic Structure, PN Junctions & Diodes, Zener Diodes, Unijunction Transistor, Silicon Control Rectifier, DIAC, Power Suppliers, Zener Diodes & Voltage Regulation, Transistors, and Source or Sink.
2. Type of material: Animation, assessment tool, assignment, case study, collection, development tool, drill and practice, e-portfolio, learning object repository, online course, open journal article, open textbook, presentation, reference material, simulation/game, social networking tool, quiz/test, tutorial, workshop and training material.	Student Support Materials
3. Technical requirements: Browser, software or plug-in, Java, HTML, Flash, etc. You can test how it appears on Internet Explorer at http://ipinfo.info/netrenderer/ Note type of device if it is an app (iPad, Android, phone, etc.)	
4. Identify major learning goals/ curriculum objectives: Purpose of site, goal for learner/user.	This is a Solid State Electronics course. Material is outlined and presented effectively and logically.
5. Recommended uses: In-class, homework, individual, team, lecture, etc.	To be effective, this course needs an instructor and access to lab equipment and supplies.
6. Target population: Level, course or subject matter, other user groups	Students should have basic DC and AC instruction prior to taking this course.
7. Prerequisite knowledge or skills needed: Course or subject matter, computer skills, other miscellaneous skills	12th grade reading; college ready in math, completion of DC and AC coursework.

8. Application to industry recognized certification: Name of credential or certification.	No certifications

Evaluation and Observations: After reviewing the learning material, please indicate your agreement with the following statements by utilizing the scoring scale: 4=Strongly Agree; 3=Agree; 2=Disagree; 1=Strongly Disagree; and 0=N/A.

#1 Quality of Content – The Learning Material…	Strongly Agree: 4	Agree: 3	Disagree: 2	Strongly Disagree: 1	N/A: 0	TOTAL
…is clear and concise		3				3
…provides a complete demonstration of the concept		3				3
…demonstrates a core concept grounded in the discipline		3				3
…is current and relevant		3				3
…is supported by appropriate research		3				3
…is self-contained (can be used without requiring an assignment or context)			2			2
…provides accurate information		3				3
…is flexible (can be used in several situations)		3				3
…includes an adequate amount of material		3				3
...has strong workplace relevance		3				3
…integrates the concept well		3				3
Overall, the quality of the content is very high		3				3
Total: #1 Quality of Content	0	33	2	0	0	35

#2 Potential Effectiveness as a Teaching Tool/This Learning Material…	Strongly Agree: 4	Agree: 3	Disagree:2	Strongly Disagree: 1	N/A: 0	TOTAL
…identifies learning objectives		3				3
…identifies prerequisite knowledge		3				3
…reinforces concepts progressively		3				3
…builds on prior concepts		3				3
…demonstrates relationships between concepts		3				3
…is easy to integrate into curriculum assignments		3				3
…is very efficient (could learn a lot in a short time)			2			2
…can be used to measure student learning outcomes		3				3
Overall, learning material is a very effective teaching tool		3				3
Total: #2 Effectiveness as Teaching Tool	0	24	2	0	0	26

#3 Ease of Use – This Learning Material…	Strongly Agree: 4	Agree: 3	Disagree: 2	Strongly Disagree: 1	N/A: 0	TOTAL
…is easy to use		3				3
…has very clear instructions		3				3
…is engaging			2			2

…is visually appealing			2			2
…is interactive			2			2
…is of high design quality		3				3
…meets accessibility requirements if able to assess		3				3
…if an app, can be used on multiple types of mobile devices and						0
platforms						0
Total: #3 Ease of Use	0	12	6	0	0	18

Combined TOTAL scores (add together the totals as indicated above for #1, #2, #3	79
Optional Information:	
Other comments to be included in the review: (If an app, respects privacy of user, meets PG rating standards, how frequently app is updated)	This course makes extensive use of publicly available web sites that include a variety of media. Some of the links are broken--this can frustrate the learner. Also, some sites are quite detailed and not very engaging. I expected to see more material developed by the author and delivered in a more engaging fashion. The diode lab mentions unmarked diodes. I suggest adding more instruction to this lab. The labs require resources
Comments to author only: (Any needed improvements or recommendations should be addressed here.)	

This workforce solution was created through a cooperative agreement between the U.S. Department of Labor's Employment and Training Administration and the California State University-Multimedia Educational Resource for Learning and Online Teaching (MERLOT).