

SkillsCommons Manufacturing Editorial Board

Name of Learning Material:	Industrial Electricity I Certificate Review
SKILLSCOMMONS URL:	https://www.skillscommons.org/handle/taaccct/9208
Learning Material URL:	
Reviewer's Name:	Robert E. Speckert
Date Review Completed:	30-Jun-18
Review Time Required:	1HR
Rejected? Y/N	N
Description	
<p>1. Overview: Describe overview, features and descriptions, uses, and applications. Include cost, if any for apps</p>	<p>This course cartridge contains materials that may be used in an online format to review for PMMI's (The Association for Packaging Processing Technologies) Industrial Electricity I Certificate which is part of PMMI's Mechatronics Program Certification. This certificate covers basic safety practices for voltages up to 600 volts and knowledge of voltage, current and power in AC and DC circuits, circuit analysis of series and parallel loads, and basic understanding of resistors, capacitors, and inductors. It applies these fundamentals to simple applications that would be found in residential, light commercial and simple industrial use. This is a review course and it is assumed the student has taken previous automation courses or has basic knowledge of the topics to be covered. Upon completion of this course, students may be prepared to take PMMI's Industrial Electricity I test. Materials include the course outline with outcomes, study guide units, and practice exercises</p>
<p>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.</p>	Collection
<p>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.)</p>	
<p>4. Identify major learning goals/ curriculum objectives: Purpose of site, goal for learner/user.</p>	Goals are clearly stated and course content supports the goals.
<p>5. Recommended uses: In-class, homework, individual, team, lecture, etc.</p>	Learner can work on their own. Some material will likely require instructor support. Hands on activities are necessary.

6. Target population: Level, course or subject matter, other user groups	Electricians training, maintenance training, and similar positions.
7. Prerequisite knowledge or skills needed: Course or subject matter, computer skills, other miscellaneous skills	Knowledge of DC and AC electricity. 12th grade reading and good math skills. In the Course Outline, list prerequisites by content knowledge rather than a specific course number (i.e., ARET1175).
8. Application to industry recognized certification: Name of credential or certification.	Very applied and practical information.

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	4					4
...provides a complete demonstration of the concept	4					4
...demonstrates a core concept grounded in the discipline	4					4
...is current and relevant	4					4
...is supported by appropriate research	4					4
...is self-contained (can be used without requiring an assignment or context)	4					4
...provides accurate information	4					4
...is flexible (can be used in several situations)		3				3
...includes an adequate amount of material	4					4
...has strong workplace relevance	4					4
...integrates the concept well	4					4
Overall, the quality of the content is very high	4					4
Total: #1 Quality of Content	44	3	0	0	0	47

#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	4					4
...identifies prerequisite knowledge		3				3
...reinforces concepts progressively	4					4
...builds on prior concepts	4					4
...demonstrates relationships between concepts	4					4
...is easy to integrate into curriculum assignments	4					4
...is very efficient (could learn a lot in a short time)		3				3
...can be used to measure student learning outcomes	4					4
Overall, learning material is a very effective teaching tool	4					4
Total: #2 Effectiveness as Teaching Tool	28	6	0	0	0	34

#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	4					4
...has very clear instructions	4					4
...is engaging	4					4
...is visually appealing	4					4
...is interactive	4					4
...is of high design quality	4					4
...meets accessibility requirements if able to assess					0	0
...if an app, can be used on multiple types of mobile devices and platforms					0	0
						0
Total: #3 Ease of Use	24	0	0	0	0	24

Combined TOTAL scores (add together the totals as indicated above for #1, #2, #3)	105
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)	Prerequisite knowledge should be listed by topics rather than a course specific to this institution.
Comments to author only: (Any needed improvements or recommendations should be addressed here.)	

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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).

