

Review of Performance: VEM 212 National Electrical Code (NEC)
 Submitted by: Cirilo Recana

No. of Student: 8
 Semesters: Spring 2017

Institutional Student Learning Outcomes (ISLO's)

1. Effective oral communication
2. Effective written communication
3. Critical thinking
4. Problem solving
5. Intercultural knowledge and competence
6. **Information literacy**
7. **Foundations and skills for life-long learning**
8. Quantitative reasoning

Program Learning Outcomes (PLO's)

1. Practice safety and occupational health procedures in the workplace.
2. Use electricity hand and power tools competently.
3. Test electrical equipment.
4. Interpret schematic wiring diagrams and waveforms.
5. Determine the amount of load per circuit.
6. Install residential wiring circuits according to given specification and plan.
7. Identify and interpret basic solid state (electronics) symbols and circuits schematics commonly found in the electrical industry.
8. Analyze circuit operation on basic motors.
9. Perform basic troubleshooting on basic motors.
10. Install and perform basic maintenance on air-conditioning units.
11. **Interpret and install circuits according to rules and regulations of the National Electrical Code book.**
12. Install and analyze basic motor control circuits.

SLO#	PLO	I, D, M	ISLO	Reflection/Comment		
SLO#1 Describe the purpose of the National Electrical Code (NEC).	11	I (introduced level)	6	SLO was assessed by written test questions using the assessment criteria as stated in the course outline. Result of assessment is shown below:		
				No. of students	Score	Comment
				0	69 or lower	Failed
				8	70 or better	Passed

				100% of the students passed									
SLO#2 Describe the structure of the National Electrical Code (NEC) book.	11	I (introduced level)	6	<p>SLO was assessed by written test questions using the assessment criteria as stated in the course outline. Result of assessment is shown below:</p> <table border="1"> <thead> <tr> <th>No. of students</th> <th>Score</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>69 or lower</td> <td>Failed</td> </tr> <tr> <td>7</td> <td>70 or better</td> <td>Passed</td> </tr> </tbody> </table> <p>88% of the students passed</p>	No. of students	Score	Comment	1	69 or lower	Failed	7	70 or better	Passed
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1	69 or lower	Failed											
7	70 or better	Passed											
SLO#3 Define NEC terminologies.	11	I,D (introduced and demonstrate level)	6	<p>SLO was assessed by written test questions using the assessment criteria as stated in the course outline. Result of assessment is shown below:</p> <table border="1"> <thead> <tr> <th>No. of students</th> <th>Score</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>69 or lower</td> <td>Failed</td> </tr> <tr> <td>7</td> <td>70 or better</td> <td>Passed</td> </tr> </tbody> </table> <p>88% of the students passed</p>	No. of students	Score	Comment	1	69 or lower	Failed	7	70 or better	Passed
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7	70 or better	Passed											
SLO#4 Describe the organization of the NEC book.	11	D (demonstrate level)	6	<p>SLO was assessed by written test questions using the assessment criteria as stated in the course outline. Result of assessment is shown below:</p> <table border="1"> <thead> <tr> <th>No. of students</th> <th>Score</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>69 or lower</td> <td>Failed</td> </tr> <tr> <td>8</td> <td>70 or better</td> <td>Passed</td> </tr> </tbody> </table> <p>100% of the students passed</p>	No. of students	Score	Comment	0	69 or lower	Failed	8	70 or better	Passed
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SLO#5 Demonstrate navigating through the NEC book.	11	D,M (demonstrate and master level)	7	<p>SLO was assessed by written test questions using the assessment criteria as stated in the course outline. Result of assessment is shown below:</p> <table border="1"> <thead> <tr> <th>No. of students</th> <th>Score</th> <th>Comment</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>69 or lower</td> <td>Failed</td> </tr> <tr> <td>8</td> <td>70 or better</td> <td>Passed</td> </tr> </tbody> </table> <p>100% of the students passed</p>	No. of students	Score	Comment	0	69 or lower	Failed	8	70 or better	Passed
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8	70 or better	Passed											

SLO#6 Identify the roles of other organizations.	11	M (mastery level)	6	<p>SLO was assessed by written test questions using the assessment criteria as stated in the course outline. Result of assessment is shown below:</p> <table border="1" data-bbox="1157 306 1829 415"> <thead> <tr> <th data-bbox="1157 306 1381 342">No. of students</th> <th data-bbox="1381 306 1608 342">Score</th> <th data-bbox="1608 306 1829 342">Comment</th> </tr> </thead> <tbody> <tr> <td data-bbox="1157 342 1381 378">0</td> <td data-bbox="1381 342 1608 378">69 or lower</td> <td data-bbox="1608 342 1829 378">Failed</td> </tr> <tr> <td data-bbox="1157 378 1381 415">8</td> <td data-bbox="1381 378 1608 415">70 or better</td> <td data-bbox="1608 378 1829 415">Passed</td> </tr> </tbody> </table> <p data-bbox="1157 415 1829 474">100% of the students passed</p>	No. of students	Score	Comment	0	69 or lower	Failed	8	70 or better	Passed
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Additional observations: In reference with the data presented above, high percentage showed students are interested in combining theoretical and hands-on activities in the class.

Students Final Grades Breakdown:

A = 2 C = 2 F = 0
B = 4 D = 0

Recommendations: Software copy of NEC must be updated to its latest edition regularly to keep the students aware of the new changes and standards set by National Electrical Code Committee. Course modification must be done regularly as schedule to keep phase with the current code standards required to learn by the students on wiring practices.

Signature: **Cirilo B. Recana**
Electrical Instructor

Date Submitted: May 2017