

Review of Performance: VEM 105 BASIC ELECTRICITY FOR AC  
Submitted by: Bertoldo B. Esteban Jr.

Semester: FALL 2016

No. of students: 13

**Institutional Student Learning Outcomes (ISLO):**

ISLO1: Effective oral communication.

ISLO2: Effective written communication.

ISLO3: Critical thinking.

ISLO4: Problem solving.

ISLO5: Intercultural knowledge and competence.

ISLO6: Information literacy.

ISLO7: Foundations and skills for life-long learning.

ISLO8: Quantitative Reasoning.

**Program Learning Outcomes (PLO)**

PLO1: Identify safety and occupational health requirements in the Refrigeration and Air Conditioning industry.

PLO2: Use specified hand and power tools for Refrigeration and Air Conditioning.

PLO3: Perform basic hand skills in maintaining Refrigeration and Air Conditioning system to a given specifications.

PLO4: Read and interpret basic electrical drawing and symbols related to Refrigeration and Air Conditioning.

PLO5: Perform basic troubleshooting and repair of domestic refrigeration and air conditioning units.

PLO6: Participate in the Refrigeration and Air Conditioning profession.

<b>SLO#</b>	<b>Program SLO#</b>	<b>I, D, M</b>	<b>ISLO</b>	<b>Reflection/Comment</b>
1. Discuss fundamentals of electricity.	1	M,D	2, 7	10 (1 female; 9 males) out of 13 students (77%) successfully completed this CSLO as measured by group and class discussions, quizzes and performances.

2. Manipulate electrical measuring instruments.	2	M, D	4, 7	10 (1 female; 9 males) out of 13 students (77%) successfully completed this CSLO as measured by group and class discussions, quizzes and performances.
3. Determine the electrical components of domestic refrigeration system.	3	M,D	7	10 (1 female; 9 males) out of 13 students (77%) successfully completed this CSLO as measured by group and class discussions, quizzes and performances.
4. Analyze electrical diagram of domestic refrigeration and air conditioning unit.	4	M,D	2	11 (1 female; 10 males) out of 13 students (85%) successfully completed this CSLO as measured by group and class discussions, quizzes and performances.
5. Troubleshoot electrical defects of domestic refrigeration and air conditioning system.	2	M, D	4, 7	11 (1 female; 10 males) out of 13 students (85%) successfully completed this CSLO as measured by group and class discussions, quizzes and performances.
6. Repair electrical defects of a domestic refrigeration and air conditioning system.	6	M, D	7	11 (1 female; 10 males) out of 13 students (85%) successfully completed this CSLO as measured by group and class discussions, quizzes and performances.

I- Introduced

D – Demonstrated

M – Mastery at a level appropriate for graduation

**Final grade:**

There were ten (1 female; 9 males) out of thirteen (13) students or (77%) got “C” or higher in this course.

**Recommendations:**

Need to implement the BOR approved curriculum. Need to build a bigger workshop. Need to acquire more personal protective equipment (PPE) to enhance safety practices. The course needs more hand tools and new instruments to cope up with the changes in the refrigeration industry as implemented by the United States, Environmental Protection Agency (EPA) and the United Nations Environment Protection (UNEP).

Signature: Bertoldo B. Esteban Jr.  
RAC Professor

Date: December 12, 2016