Review of Performance: VWE 115 GENERAL WELDING, SPRING 2018, (3 students)

Submitted by: Bertoldo B. Esteban Jr.

**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.

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| **SLO#** | **Program** **SLO#** | **I, D, M** | **ISLO** | **Reflection/Comment** |
| 1. Define welding
 | Identify safety and occupational health requirements in the Refrigeration and Air Conditioning industry. | M,D | 7 | 3 (0 female; 3 males) out of 3 students (100%) successfully completed this CSLO as measured by group and class discussions, quizzes and performances.  |
| 1. Display high safety standards when using welding equipment
 | Identify safety and occupational health requirements in the Refrigeration and Air Conditioning industry. | M, D | 3, 4, & 7 | 3 (0 female; 3 males) out of 3 students (100%) successfully completed this CSLO as measured by group and class discussions, quizzes and performances.  |
| 1. Determine types of weld and joints
 | Read and interpret basic electrical drawing and symbols related to Refrigeration and Air Conditioning.  | M,D | 3, 4, & 7 | 3 (0 female; 3 males) out of 3 students (100%) successfully completed this CSLO as measured by group and class discussions, quizzes and performances.  |
| 1. Set-up and operate oxy-acetylene equipment
 | Read and interpret basic electrical drawing and symbols related to Refrigeration and Air Conditioning.  | M,D | 3, 4, & 7 | 3 (0 female; 3 males) out of 3 students (100%) successfully completed this CSLO as measured by group and class discussions, quizzes and performances.  |
| 5. Set up shielded metal arc welding equipment | Read and interpret basic electrical drawing and symbols related to Refrigeration and Air Conditioning.  | M, D | 3, 4, & 7 | 3 (0 female; 3 males) out of 3 students (100%) successfully completed this CSLO as measured by group and class discussions, quizzes and performances.  |
| 6. Perform oxy-acetylene welding methods | Use specified hand and power tools for Refrigeration and Air Conditioning. | M, D | 3, 4, & 7 | 3 (0 female; 3 males) out of 3 students (100%) successfully completed this CSLO as measured by group and class discussions, quizzes and performances.  |
| 7. Perform electric arc welding | Use specified hand and power tools for Refrigeration and Air Conditioning. | M, D | 3, 4, & 7 | 3 (0 female; 3 males) out of 3 students (100%) successfully completed this CSLO as measured by group and class discussions, quizzes and performances.  |
| 8. Identify the causes and remedies of a welding defects | Perform basic troubleshooting and repair of domestic refrigeration and air conditioning units. | M,D | 3, 4, & 7 | 3 (0 female; 3 males) out of 3 students (100%) successfully completed this CSLO as measured by group and class discussions, quizzes and performances.  |

**Additional observations:** Students need more practical exposures to develop their self-confidence in performing assigned tasks. The workshop is too small for the size of the class particularly during practical exercises. Personal safety equipment’s (PPE) are not enough.

**Special comments:**

**Final Grade:** The final grade is the average of mid-term grade and final-term grade.

**Percentage rates:**

90% - 100% A – Superior 80% - 89% B- Above average 70% - 79% C - Average

60% - 69% D - Below average 0 - 59% F - Failure

There were three (3) students got “C” or higher grade in this course.

**Recommendations:** Implement the BOR approved program curriculum. Need a bigger size of workshop and more personal safety equipment. RAC student toolkit must be issued during fall semester.

Signature: Bertoldo B. Esteban Jr. Date: May 10, 2018

RAC Professor