Review of Performance: (**VEM 110/P3 Workshop Fabricatioon**, Fall 2017, 10 students (10 male) .
Submitted by: Nelchor Permitez Ed. D.

Institutional Student Learning Outcomes (ILO):
ILO1: Effective oral communication.
ILO2: Effective written communication.
ILO3: Critical Thinking
ILO4: Problem Solving
ILO5: Intercultural knowledge and competence.
ILO6:Information literacy.
IL07:Foundations and skills for life-long learning.
ILO8:Quantitative reasoning.

Program Learning Outcomes (PLO)
PLO1: Practice Safety and occupational health procedures in the workplace.
PLO2: Use electronic tools and test equipment competently.
PLO3: Interpret schematic diagrams and waveforms.
PLO4: Build electronic projects to a given specification.

SLO#	Program SLO#	I, D, M	ISLO	Reflection/Comment
1. Identify safety procedure in the electronics workshop.	Practice safety and occupational health procedures in the workplace	D	6,7	8 students (10 male) out of 10 students (80%) successfully completed this CSLO as measured by using hands on experiments and a written quiz.
2. Demonstrate the use of electronics hand tools and equipment in the workshop.	Use electronics tool and test equipment competently	D	6,7	8 students (10 male) out of 10 students (80%) successfully completed this CSLO as measured by using hands on experiments and a written quiz.
3. Identify the	Use electronics tool	M	6,7	8 students (10 male) out of 10 students (80%)

different wires, cables, connectors and perform splicing procedure.	and test equipment competently			successfully completed this CSLO as measured by using hands on experiments and a written quiz.
4. Terminate and connect wires, cables and connectors.	Use electronics tool and test equipment competently	M	6,7	8 students (10 male) out of 10 students (80%) successfully completed this CSLO as measured by using hands on experiments and a written quiz.
5. Test wire, cable and connectors linkage.	Use electronics tool and test equipment competently	M	6,7	8 students (10 male) out of 10 students (80%) successfully completed this CSLO as measured by using hands on experiments and a written quiz.
6. Rework wire, cable and connector assembly. .	Build electronic projects to a given specification.	M	Build electronic projects to a given specification.	8 students (10 male) out of 10 students (80%) successfully completed this CSLO as measured by using hands on experiments and a written quiz.

Additional observations
Students need more time in soldering practices, tool kits order in the bookstore is insufficient in number which is why some students does not have tools, need to include current trends in soldering procedure in the course and some students did not come to school after the mid-term when their refund was not release. @ students fail in the class because of absenteeism.

Special comments: 8 students got a grade of C or better and 2 student got F for not completing the cable wire and connector assembly, bread boarding activity and absenteeism in the class.

Recommendations: : Ball grid array (BGA) soldering, Infra red (IR) soldering and hot air soldering method must be included in the course to meet the fast changing technology in soldering process. Introduce power supply kit assembly on top of the telephone kit.

Need to purchase new equipment such as hot air solder station and infrared soldering station and kits to improve the soldering skills of the students.

The tool kits should be order during summer and much better if it is purchase on island to make it sure it will arrive on time.

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