

Review of Performance: (**VEE 100/P2 Soldering and Mechanical Termination Techniques**, Fall 2016, 10 students (9 males and 1 female).

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.
- ILO7: 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 and perform the techniques for printed circuit track and pad repair as well as component insertion and extraction	Practice safety and occupational health procedures in the workplace	D	6,7	8 students (9 males; 1 female) out of 10 students (80%) successfully completed this CSLO as measured by using hands on experiments and a written quiz.
2. Select the correct connection type and	Use electronics tool and test equipment	D	6,7	8 students (9 males; 1 female) out of 10 students (80%) successfully completed this CSLO as

create reliable solder joints using basic hand soldering techniques	competently			measured by using hands on experiments and a written quiz.
3. Demonstrate the correct method of terminating basic connector.	Use electronics tool and test equipment competently	M	6,7	8 students (9 males; 1 female) out of 10 students (80%) successfully completed this CSLO as measured by using hands on experiments and a written quiz.
4. Describe characteristics of and procedures for making good wire wrap connection.	Use electronics tool and test equipment competently	M	6,7	8 students (9 males; 1 female) out of 10 students (80%) successfully completed this CSLO as measured by using hands on experiments and a written quiz.
5. Test basic wiring and connector.	Use electronics tool and test equipment competently	M	6,7	8 students (9 males; 1 female) 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.

Special comments: 8 students got a grade of C or better and 2 student got F for not completing the soldering and desoldering procedure absenteeism.

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.

Submitted by:

Date: December 9, 2016

Nelchor Permitez
Professor Telecomm/Electronics
Pohnpei Campus