

Review of Performance: **(VEE 100 Soldering and Mechanical Termination Techniques, Fall 2015, 29 students)**

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.
- PLO5: Practice a career in the Telecomm Industry.
- PLO6: Troubleshoot microwave, fiber optics and telephone system.

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	7	<p>The SLO was assess using hands-on troubleshooting and written quiz and examination.</p> <p>Students need more time in hands-on and other practical procedure to reach mastery level performance.</p>

				<table border="1"> <thead> <tr> <th>Letter Grade</th> <th>Number of student</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>3</td> </tr> <tr> <td>B</td> <td>12</td> </tr> <tr> <td>C</td> <td>14</td> </tr> <tr> <td>F</td> <td>0</td> </tr> </tbody> </table>	Letter Grade	Number of student	A	3	B	12	C	14	F	0
Letter Grade	Number of student													
A	3													
B	12													
C	14													
F	0													
2. Select the correct connection type and create reliable solder joints using basic hand soldering techniques	Use electronics tool and test equipment competently	D	7	<p>The SLO was assess using hands-on troubleshooting and written quiz and examination.</p> <p>Students need more time in hands-on and other practical procedure to reach mastery level performance.</p> <table border="1"> <thead> <tr> <th>Letter Grade</th> <th>Number of student</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>4</td> </tr> <tr> <td>B</td> <td>10</td> </tr> <tr> <td>C</td> <td>14</td> </tr> <tr> <td>D</td> <td>1</td> </tr> </tbody> </table>	Letter Grade	Number of student	A	4	B	10	C	14	D	1
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A	4													
B	10													
C	14													
D	1													
3. Demonstrate the correct method of terminating basic connector.	Use electronics tool and test equipment competently	M	7	<p>The SLO was assess using hands-on troubleshooting and written quiz and examination.</p> <p>Students need more time in hands-on and other practical procedure.</p>										

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4. Describe characteristics of and procedures for making good wire wrap connection.	Use electronics tool and test equipment competently	M	7	<p>The SLO was assess using hands-on troubleshooting and written quiz and examination.</p> <p>Students need more time in hands-on and other practical procedure to reach mastery level performance.</p> <table border="1"> <thead> <tr> <th>Letter Grade</th> <th>Number of student</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>3</td> </tr> <tr> <td>B</td> <td>11</td> </tr> <tr> <td>C</td> <td>10</td> </tr> <tr> <td>D</td> <td>2</td> </tr> <tr> <td>F</td> <td>3</td> </tr> </tbody> </table>	Letter Grade	Number of student	A	3	B	11	C	10	D	2	F	3
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5. Test basic wiring and connector.	Use electronics tool and test equipment competently	M	7	<p>The SLO was assess using hands-on troubleshooting and written quiz and examination.</p>												

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Additional observations

Students need more time in soldering practices to meet the highest competency level.

Special comments: Out of 29 students there were 3 students got A, 11 got a grade of B , 10 got C, 2 got D and 2 got F. The student who got F fail to comply the requirements of the course due to absenteeism. 86% got the grade of C and better.

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.

Signature: _____

Date: December 11, 2015

Name typed, position