Review of Performance: (**VEE 100 Soldering and Mechanical Termination Techniques**, Fall 2013, 24 students)
Submitted by: Nelchor Permitez Ed. D.

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

SLO#	Program SLO#	I, D, M	ILO	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	2,3,4	The SLO was assess using hands-on troubleshooting and written quiz and examination. Students need more time in hands-on and other practical procedure to reach mastery level performance.

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<table>
<tr><th>Letter Grade</th><th>Number of student</th></tr>
<tr><td>A</td><td>7</td></tr>
<tr><td>B</td><td>12</td></tr>
<tr><td>C</td><td>9</td></tr>
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<td>2. Select the correct connection type and create reliable solder joints using basic hand soldering techniques</td>
<td>Use electronics tool and test equipment competently</td>
<td>D</td>
<td>2,3,4</td>
<td>The SLO was assess using hands-on troubleshooting and written quiz and examination.

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<tr><th>Letter Grade</th><th>Number of student</th></tr>
<tr><td>A</td><td>6</td></tr>
<tr><td>B</td><td>14</td></tr>
<tr><td>C</td><td>7</td></tr>
<tr><td>D</td><td>1</td></tr>
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<td>3. Demonstrate the correct method of terminating basic connector.</td>
<td>Use electronics tool and test equipment competently</td>
<td>M</td>
<td>2,3,4</td>
<td>The SLO was assess using hands-on troubleshooting and written quiz and examination.

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<tr><td></td><td></td><td></td><td></td><td><table><tr><td>B</td><td>12</td></tr><tr><td>C</td><td>8</td></tr><tr><td>F</td><td>1</td></tr></table></td></tr>
<tr><td>4. Describe t characteristics of and t procedures for making good wire wrap connection.</td><td>Use electronics tool and test equipment competently</td><td>M</td><td>2,3,4</td><td>The SLO was assess using hands-on troubleshooting and written quiz and examination.

Students need more time in hands-on and other practical procedure to reach mastery level performance.

<table><tr><td>Letter Grade</td><td>Number of student</td></tr><tr><td>A</td><td>8</td></tr><tr><td>B</td><td>12</td></tr><tr><td>C</td><td>7</td></tr><tr><td>F</td><td>1</td></tr></table></td></tr>
<tr><td>5. Test basic wiring and connector.</td><td>Use electronics tool and test equipment competently</td><td>M</td><td>2,3,4</td><td>The SLO was assess using hands-on troubleshooting and written quiz and examination.

Students need more time in hands-on and other practical procedure to reach mastery level performance.</td></tr>
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Letter Grade	Number of student
A	7
B	12
C	8
F	1

Additional observations
Students need more time in project making the time is not sufficient to meet the highest competency level.

Special comments: Seven (7) students got A, twelve (12) students got B, eight 8 students got C and one (1) student got F. The student who got F fail to comply the requirements of the course due to 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 solder kit cost should be bought and shoulder by individual students. Likewise it should be bought early to avoid delay as scheduled.

Signature:_____ Date:_____
Name typed, position