

Review of Performance: VEE 100 Soldering and Mechanical Termination Techniques Fall 2018, (11 students) P2
Submitted by: Danilo S. Ibarrola

Institutional Student Learning Outcomes (ISLO):

- ILO1:** Effective oral communication.
- ILO2:** Effective written communication.
- ILO3:** Critical Thinking
- ILO4:** Problem Solving
- ILO5:** Inter-cultural 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. Demonstrate knowledge in soldering tools and materials.	Practice safety and occupational health procedures in the workplace.	D	6, 7	Course Result	SLO was assessed by written test questions using the assessment criteria as stated in the course outline. 11 (11 male & 0 female) out of 11 students (100%) completed the CSLO.
				Target Met	Yes
2. Solder electronics components onto Printed Circuit Board (PCB) assembly kit.	Use electronics tools and test equipment competently.	D	6, 7	Course Result	A rubric is used to assess students' competence in soldering and reworking of wires, terminals and electronics components on a PCB assembly. 9 (9 male

					& 0 female) out of 11 students (81.82%) completed the CSLO.
				Target Met	Yes
3. Demonstrate skills in soldering of Solder Ball Grid Array (BGA) Integrated Circuits (IC) and lead free Surface Mount Device (SMD).	Use electronics tools and test equipment competently.	M	6, 7	Course Result	A rubric is used to assess students' competence in CSLO 3.1 to 3.4 in soldering and reworking of BGA IC using hot air and infra-red solder station. 8 (8 male & 0 female) out of 11 students (72.73%) completed the CSLO.
				Target Met	Yes

Special comments: 8 out of 11 or 72.73% of the students got a grade of C and higher and 3 or 27.27% got a grade of D and F.

Recommendations: Students need more time in soldering practices. Tool kits ordered did not arrived in time, need to order it as early as spring. Need to include current trends in soldering procedure such as hot air and infra-red soldering.

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