

Program Student Learning Outcomes Assessment Summary (AY 2015-2016)

Program Student Learning Outcomes (PSLOs)

At the completion of the (AAS) **Telecommunication Program**, the student will be able to:

5. Practice career in telecommunication industry.
6. Troubleshoot microwave, fiber optic, radio communication and telephone system

PSLO Assessment Report Summary

What we looked at:

The Telecommunication Program assessment focused on PSLOs 5 and 6. Students were assessed during their work place immersion and on workshop hands-on activity using various communication circuits and devices. Listed below are the results for each of the PSLOs.

What we found:

- In VEE 230 (Radio Communication), 17 out of 17 or 100% of the students pass the assessment and were able to troubleshoot Radio transceiver circuits.
- In VEE 250 (Cooperative Education), 28 out of 28 or 100 % of the students pass the assessment and were able to experience industry immersion.
- In VTE 260 (Microwave) 31 Out of 33 or 94% of the students pass the assessment and were able to setup and troubleshoot microwave system.
- In VTE 261 (Fiber optics installation) 30 out of 30 or 100% of the students pass the assessment and were able to terminate and connect fiber optics cable and connector.
- In VTE 270 (Telecommunication systems) 30 out of 30 or 100% of the students pass the assessment and were able to setup and troubleshoot fiber optics and microwave communication systems.
- In VTE 280 (Telephone System) 28 out of 28 students or 100% pass the assessment and were able to troubleshoot and repair handset telephone system.
- In VTE 281 (Cellular phone servicing) 21 out of 21 or 100% pass the assessment and were able to service, troubleshoot and repair cell phones.

What we are planning to work on:

Include how to use microscope and an infra-red solder station to learn the ball grid array (BGA) rework competencies where all integrated circuit (IC) found in modern cellphone technology attach onto its printed circuit board (PCB).

Incorporate installation and setup of HF (high frequency) radio base station and interface to ADSL to communicate world wide using portable hand held radio.

Recommendations for students:

Students must have a grade of “C” or better in Math and English courses this proficiency level help the student to meet the course work in telecommunication technology technical courses. Likewise should meet every course prerequisite of each courses in the program to assure program completion in two years.

Competency on using test instruments and generators, identify and test passive and active electronics component and able to read block, wiring and schematic diagram before taking the advance courses in telecommunication program.