

**Fresno City College
Electrical Systems Technology (EST) Program
April 25th 2019 Perkins Advisory Committee
6:30 – 7:30 PM
T-303A**

Call to Order and Introductions

Name	Affiliation
1. Robert Martinez	ECC Department Chair / EST Instructor
2. Adam Jacobs	Cold Storage
3. Nikki Lirette	EST Club Secretary
4. Mike Schwan	Total Control
5. Frank DiLiddo	Energy Manager, Fresno Unified
6. Darren Adams	EST Instructor
7. Douglas Urabe	Duncan Polytechnical High School
8. Bruce Miller	EST Instructor
9. Dan Sousa	Apprenticeship SCCCD
10. Naomi Garzon	Amazon
11. Daniel Himes	Retired EST Instructor
12. Troy Klinger	Unwired Broadband
13. Weston Konik	EST student
14. Richard Ray	IES
15. Pete Perez	EST student
16. Frank Zendejas	EST Instructor

Open Forum

Dan Sousa of the Apprenticeship program at SCCD shared that he had an opportunity for FCC student to volunteers for an upcoming Builders Exchange function. It would be an opportunity for students to network with industry people.

Douglas Urabe from Duncan Polytechnical High School voiced an opportunity for EST faculty to participate in mock interviews/evaluations of Freshman and Sophomore students.

Title 5 Review / Program Changes / Industry Needs

Frank Zendejas introduced the Biomedical Equipment Technician program to the committee. Described the focus of the current course, the direction of the program, the development of future courses, the growth of an advisory board of members within the BMET field, and the need for equipment and testing equipment. Robert Martinez asked the committee if there were any objections to funding to be spent on this program and there were no objections from the committee.

Frank Zendejas described the Voice and Data Cabling course. Described the main objective of the course, and future developments of the course to keep the material up to date and relevant. Expressed the need for a duplicate of a fusion splicer and cable

analyzer. Robert Martinez asked the committee if there were any objections to funding to be spent on this program/course and there were no objections from the committee.

Darren Adams described the Industrial Robotics program. Specifically addressed were awarded funds have been spent. For example, in purchasing new robotic arms and conveyors for the development of the new robotics lab. In addition, described what students learn from taking each of the two robotics courses. Frank DiLiddo expressed that the campus should advertise the robotic lab when it was completed. Mike Schwan agreed that advertisement would be critical in getting the word out to students/community of the robotic courses available at Fresno City College. Dan Sousa mentioned that employer's and their employees which he visits are very interested in our industrial robotics. That he can envision apprenticeship students taking these courses. Robert Martinez asked the committee if there were any objections to funding to be spent on this program and there were no objections from the committee.

Bruce Miller described to the committee the new upgrades to the Facility Automation Lab. Addressed how funds were used to purchase new cameras, and lighting systems. He mentioned that future upgrades would be door systems. Troy Klinger of Unwired Broadband voiced that he had software and biometric meters that he would be willing to donate to the school. It was decided that FFC faculty and Troy would continue this discussion to see if we could incorporate any donated equipment to the course. Robert Martinez asked the committee if there were any objections to funding to be spent on this program and there were no objections from the committee.

Darren Adams spoke about the newly purchased PLC's to replace the current PLC's used in the course's trainers. The new PLC's now have two networking ports that will give them more capability and keeping up with current technology. Dan Sousa suggested that if we are no longer using the replaced PLC's that we donate them to a high school. Robert Martinez asked the committee if there were any objections to funding to be spent on this program and there were no objections from the committee.

Robert Martinez shared the new certificate model draft which includes Electricity Fundamentals I, Electricity Fundamentals II, Industrial Automation I, Industrial Automation II, Electro-Mechanical I, Electrical Mechanical II, Biomedical, Facility Control, Photovoltaics, Low Voltage, and the full EST as well as their advisories and electives for each. The committee liked the certificates and how they are stackable and approved their implementation and also approved edits as needed.

Robert Martinez asked the committee what FCC EST could do for them. Specifically, what are their interests. Dan Sousa voiced that he would like to see courses not typically offered during the evening to occasionally be taught during the evening. His reason was that apprenticeship students only have time during the evening to take courses and this would open up more possibilities for his Apprenticeship program.

Troy Klinger of Unwired Broadband suggested that we should consider adding RF, 5G, RF propagation and dish alignment to our voice and data cabling course. Mentioned that he has the need for students that have this experience. In addition, he mentioned topics such as logging data to provision a radio tower, SNP, knowing how to use a spectrum analyzer, cable test sets, and light meters. Lastly, suggested to have students learn single mode fiber as well as the currently taught multimode fiber.

Budgets (Program, Perkins, Strong Workforce, ETC)

Robert Martinez discussed the funds that EST has received. Specially he thanked Dan Sousa for his continual support of EST and the funding that comes along with our collaboration with the Apprenticeship program. Dan Sousa reciprocated his appreciate for the EST program expressing that EST provides his students and the companies the students work for opportunities to continue their skillset.

Robert also described Action Plan Funding and how those are used to continue to keep EST at the forefront of technology.

The committee agreed additional funding needed to be applied to:

- Intro AC/DC courses
- Biomedical Equipment
- Robotics
- Facility Automation
- Voice & Data Cabling
- Motor controls
- PLC's
- Industrial Automation pathways

Outreach / Advertising

The committee agreed that it would be beneficial if there was an easy way to keep in communications during the year.

Adjourn

Meeting was adjourned at 7:30PM by Robert Martinez and a full tour of the EST lab took place for our committee members.