

**School of Integrated Design, Engineering, and Automation
Electrical Technology Program Advisory Committee Meeting**

April 16, 2021
(via Zoom)
12:00pm-1:00pm

1. Advisory Committee members in attendance:

Member	Affiliation	In attendance
Raja Khabbaz	Eaton	X
Pat Uetz	Advanced Technologies Consultants	X
Jon Caffery	Regional Director of Employer Engagement Energy, Construction, and Utilities	X
Terri Schmidt	Automation Pathways Project Manager CCC Strong Workforce Program	X
Gora Datta	Cal-2-Cal	X
Joe Ray	Klein Educational Systems	
Toni Sciarra	TESLA	
Matthew Mudd	Lutron	X
Brian Hagerty	P3 Innovation Center for People	X
Dave Kadonoff	IDEAL Industries	X
Gregg Ander	Gregg D. Ander, LLC	X
Ghassan Nasrallah	Eaton	X
Massimo Mitolo	Irvine Valley College	X

2. Agenda

- 2.1** Introduction to the Electrical Technology Program at IVC.
- 2.2** Review existing and proposed Electrical and Solar Certificates.
- 2.3** Discuss methods for publicizing the electrical program and program marketing strategies.

3. Call to Order, and Welcome

- 3.1** Meeting was called to order at 12:04PM by Prof. Massimo Mitolo
- 3.2** Advisory Committee members in attendance introduce themselves.
- 3.3** Advisory Committee members in attendance are made aware of the Advisory Committee Functions.

4. Introduction of the Electrical Technology Program at IVC.

- 4.1 Prof. Mitolo introduces the Electrical Technology Program at IVC. Prof. Mitolo clarifies that IVC is a state-approved school (#125), and the students enrolled in the electrical program can legally register as electrician trainees and obtain the electrician trainee (ET) card from the California DIR-Electrician Certification Unit. The ET card allows electrical program students to immediately seek or maintain employment with C-10 electrical contractors, even though they do not yet qualify to take the state certification. To remain legally employed, uncertified electricians must enroll in an approved electrical program, such as the one at IVC, and take the required minimum 75 instructional hours per semester until certified (Assembly Bill 1087).
 - 4.2 Prof. Mitolo illustrates the existing *Electrician Trainee Certificate of Proficiency* and the *Energy Solar Photovoltaic Systems Technician Certificate of Proficiency*.
 - 4.3 **Gregg Ander**. California's policies to advance and accelerate the decarbonization of the building, transportation and power sectors are aggressive and having profound workforce impacts. Electrical and renewable certificates are needed for both new entrants and upskilling incumbent workers to meet these important and aggressive goals. Professor Mitolo's proposed portfolio of certificates is needed and will be well received by industry throughout the Orange County and southern California region.
 - 4.4 **Raja Khabbaz** stated that technicians, having the skills and competencies conveyed by the electrical certificates at IVC, are in very high demand and very often difficult to find. He estimates that 20 IVC-certified technicians will be hired in SoCal by Eaton.
 - 4.5 **Matthew Mudd** confirms the importance of electrical knowledge and skills featured by the electrical certificate for lighting automation technicians.
 - 4.6 The committee members unanimously recommend that the course *ELEC 209 Electrical Safety Fundamentals* be regularly offered to educate future technicians to the culture of safety-by-design and make them safer in the field.
 - 4.7 **Ghassan Nasrallah** recommends that arc-flash concepts per NFPA 70E be included in the coursework of *ELEC 209 Electrical Safety Fundamentals* (which already are).
 - 4.8 **Jon Caffery** suggests that the course *ELEC 202 National Electrical Code – Residential* be offered, as many questions on the State exam for electrical contractors and electricians are code-focused.
 - 4.9 **Joe Ray** did not have the opportunity to attend today's Advisory Committee meeting; however, he sent an email to Prof. Mitolo on the same day at 1:14 pm, stating that he reviewed the electrical program course syllabus outlines and that they look really good.
 - 4.10 Advisory Committee members unanimously recognize that official labor market information may not properly portray the future needs of electrical and solar technicians in Orange County.
5. **Review existing and proposed Electrical and Solar Certificates to the Electrical Technology Program at IVC.**
- 5.1 Prof. Mitolo explains that the existing *Electrician Trainee Certificate of Proficiency* and the *Energy Solar Photovoltaic Systems Technician Certificate of Proficiency* have each 17 semester

units of degree-applicable coursework. Certificates of Proficiency only require up to 15 semester units.

- 5.2 *Certificates of Achievement* feature 16 or more semester units of degree-applicable coursework. Colleges must submit Certificates of Achievement to the Chancellor's Office.
 - 5.3 The advisory committee members unanimously recommend that, in the best interest of the students, the existing *Electrician Trainee Certificate of Proficiency* and the *Energy Solar Photovoltaic Systems Technician Certificate of Proficiency*, both including 17 units, should be converted into Certificates of Achievement.
 - 5.4 The advisory committee members unanimously recommend that, in the best interest of the students, the associate degree "*Electrical Systems*" and the associate degree "*Renewable Energy Systems*" should be pursued.
6. **Discuss methods for publicizing the electrical program and program marketing strategies.**
- 6.1 The advisory committee members unanimously recommend that corporations in SoCal should be made aware of the electrical program at IVC. The committee members do not recommend any other form of publicity for the electrical program.
7. The next advisory committee meeting will be scheduled the month of November 2021, after communication among parties.
8. The advisory committee meeting is adjourned at 1pm.