Imperial Valley College

Electrical, Electronics, Solar, and Renewable Energy
Local Program Advisory Committee

UNADOPTED MINUTES

Meeting of March 12, 2010

BUSINESS/INDUSTRY REPRESENTATIVES

Jorge Angeles, SDSU Student	George Hernandez, Hernandez Electric
Charlie Davis, Data Sonic	Michael Hernandez, Hernandez Electric
Richard Feuerstein, Imperial Irrigation District	Timothy E. Hutchinson, Imperial Irrigation District
Ronnie Garrie, Imperial Irrigation District	Alex Perrone, UMC
Carlos Gatlin, SDSU/IVC Student	Anthony Tylenda, UMC

IMPERIAL VALLEY COLLEGE REPRESENTATIVES

Frances Arce-Gomez, Staff Secretary II	Jose Lopez, Division Chair
Frances Beope, Lead District Counselor	Jose Macias, Adult Development Specialist
Jesus Hernandez, EWIR Instructor	Francisco Mayorel, BLDC Instructor
Javier Jimenez, Electronics Instructor	Frank Miranda, ACR Instructor
Ricardo Jimenez, Electronics Instructor	Patricia Robles, Administrative Secretary
Arturo Juarez, EWIR Instructor	Efrain Silva, Dean of Economic & Workforce Development
Carol Lee, Transfer Center Director	Al Taylor, EWIR Instructor
Martha Garcia, B-GREEN Coordinator	Jose Velasquez, BLDC Instructor

I. MEETING CALLED TO ORDER BY ALEX PERRONE AT 11:35 AM.

II. WELCOME
All in attendance were welcomed.

III. INTRODUCTIONS
Alex Perrone asked the committee members to introduce themselves.

IV. REVIEW AND RECOMMENDATIONS OF NEW PROGRAMS
A draft of new Industrial Technology certificate modules was provided and was shown on a large screen. Efrain Silva asked the committee to review the draft of the suggested new program, and to discuss, and modify the modules to fit industry needs. The following were the recommendations from the committee:

- Module I: Industrial Technology: The title of the Industrial Technician Certificate was changed to Electrical Technology Degree and Certificate because of the fact that Industrial Technology is too broad and includes other areas that will not necessarily be covered in this program. The Electrical Technology Degree/Certificate Module I needs to be completed in order for a student to earn a Specialized Certificate in either Module II, Module III, or Module IV. There are no pre-requisites in the courses in Module I, Module II, Module III, and Module IV. Yet, some of the courses do have strong recommendations.

- Module II: Electrical Wiring: The title of the suggested Tech in Electrical Wiring certificate was changed to Specialization Certificate in Electrical Wiring.

- Module III: Electronic Technology: The title of the suggested Tech in Electronic Technology certificate name was changed to Specialization Certificate in Electronics.

- Module IV: The title of the Tech in Solar Energy Technology Certificate was changed to Specialization Certificate in Solar Energy. Carol Lee asked if it should be a stand-alone course since it has so many units, but the committee suggested to keep it as a specialization certificate.

The committee members said that work experience is very important in these fields. They suggested that for the degree and major WE201 was okay, but for each specialization certificate there should be an internship required that is related to that specific field. WE 201 may be repeated up to 4 times.

The committee approved the modules as follows:

- Module I: Electrical Technology Major and Certificate
  - REQUIRED COURSES

BLDC 101	Safety Standards OSHA 30-Hour Card	3
EWIR 110	Electrical Principles	4
EWIR 115	Electrical Wiring Protection	4
ELTR 120	Electronic Devices	4
ELTR 140	Electronic Circuits and Semiconductors	4
WE 201	Employment Readiness	1
	TOTAL	20 units

- Module II: Specialization Certificate in Electrical Wiring
  - STRONGLY RECOMMENDED PREPARATION

EWIR 110	Electrical Principles	4
ELTR 120	Electronic Devices	4

  - REQUIRED COURSES

EWIR 125	Electrical Principles	4
EWIR 135	Electrical Equipment and Special Conditions	4
WE 220	Internship	1
	TOTAL	9 units

- Module III: Specialization Certificate in Electronics
  - STRONGLY RECOMMENDED PREPARATION

EWIR 110	Electrical Principles	4
ELTR 120	Electronic Devices	4

  - REQUIRED COURSES

ELTR 220	Digital Instrumentation Measurements	3
ELTR 240	Digital Logic Circuits	3
WE 220	Internship	1
	TOTAL	7 units

- Module IV: Specialization Certificate in Solar Energy
  - STRONGLY RECOMMENDED PREPARATION

EWIR 110	Electrical Principles	4
ELTR 120	Electronic Devices	4

  - REQUIRED COURSES

ELTR 220	Digital Instrumentation Measurements	3
ELTR 240	Digital Logic Circuits	3
EWIR 150	Solar Energy Systems	3
EWIR 151	Solar Electrical Systems	4
EWIR 160	Alternative Energies	4
WE 220	Internship	1
	TOTAL	18 units

V. INPUT FROM BUSINESS/INDUSTRY

The following was input received from industry members:

- BLDC 101 Course *Safety Standards OSHA 30-Hour Card* is very important for safety.
- Some individuals suggested that BLDC 101 should be a pre-requisite before taking WE 201 Working Experience. However, since WE 201 is required by various majors, a subject-specific pre-requisite cannot be implemented. There was some concern that the work experience class would not be taught by an Industrial Technology instructor.
- The business and industry reps said that there are plenty of jobs available locally and they expect the demand to grow in these fields.
- The modules would provide a good background for apprenticeship or journeymen career opportunities.

VI. OTHER

Alex Perrone stated that the construction field would increase in the future.

George Hernandez stated that the solar energy field is growing in the valley.

VII. NEXT MEETING

No discussion

VIII. THE MEETING WAS ADJOURNED BY EFRAIN SILVA AT 1:00 PM.