



CONSTRUCTION CRAFT TRAINING CENTER

26200 Industrial Boulevard
Hayward, CA 94545
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Office: 510-785-2282 Fax: 510-785-9136

INDUSTRIAL ELECTRICIAN OUTLINE

JOB OPPORTUNITIES

- ✘ Industrial Electrician
- ✘ I/E Petrochemical
- ✘ Maintenance Electrician
- ✘ Solar Installer
- ✘ Programmable Logic Controller

MARKETS

- ✘ Industrial Facilities
- ✘ Contracting Firms
- ✘ Processing Plants
- ✘ Green Construction

The Industrial Electrician course will emphasize repetition of the standard work processes to maximize learning and insure an extreme high rate of retention.

This program will be 24 hours per week in a classroom teaching Industrial Electrical work processes. The length of this program should consist of approximately 6 months or 24 to 28 weeks.

The enrollees must meet the following criteria: Have transportation to work and to the training facility, basic math and reading skills and be of working age.

The cost of this program includes only the classroom instruction and hands on lab experiences.

Work Processes: Theory, Industrial Wiring, Motor Controls, Advanced Motor Controls, Safety (BATT Certification) and PLC's.

The job opportunities are extremely high in the industrial sector of this industry. Shell Oil, Chevron, Unocal, Exxon and Tosco/Avon are all starting major projects worth billions of dollars. According to the Department of Labor there is not enough trained manpower in the bay area to meet the manpower needs these projects will require. The employment opportunities are excellent especially in the industrial sector.

Cost per student is \$5,800.00 per student which includes all classroom materials. There will be an additional cost for tools. Class is 24 weeks, Monday through Thursday, six hours per day from 7:00 a.m. to 1:30 p.m. for a total of 576 hours.

I.	<i>Introduction to Program</i>	<i>6 Hours</i>
II.	<i>Safety Orientation BATT Certification HAZWOPPER Certification Process Safety CPR and First Aid</i>	<i>48 Hours</i>
III.	<i>Electrical Theory Trade Math DC Circuits AC Circuits</i>	<i>72 Hours</i>
IV.	<i>Conduit Bending/Wire Pulling ½ Inch EMT Power Benders Wire Pulling – Hand</i>	<i>12 Hours Classroom 36 Hours Lab</i>
V.	<i>Electrical Code Organization Interpretation</i>	<i>30 Hours</i>
VI.	<i>Electrical Wiring Service Lighting Circuits Overcurrent Protection Panelboard Selection</i>	<i>24 Hours 24 Hours Lab</i>
VII.	<i>Green Construction Introduction to Solar Wind Turbines Electric Charging Stations</i>	<i>36 Hours Classroom 36 Hours Lab</i>
VIII.	<i>Industrial Wiring Plans and Sitework Unit Substation Feeder Bus System Panelboards Trolley Busways Wire Tables Signaling Systems Special Equipment HVAC Equipment System Protection Site Lighting Hazardous Location</i>	<i>48 Hours 36 Hours Lab</i>

IX.	Motor Controls	48 Hours
	Theory	72 Hours Lab
	Circuit Layout	
	Pilot Devices	
	Basic Control Circuits	
	AC Starters	
	Three Phase, Multispeed Controllers	
	Wound Rotor	
	Synchronous	
	DC Controllers	
	Methods of Deceleration	
	Motor Drives	
	Troubleshooting	
	PLC	

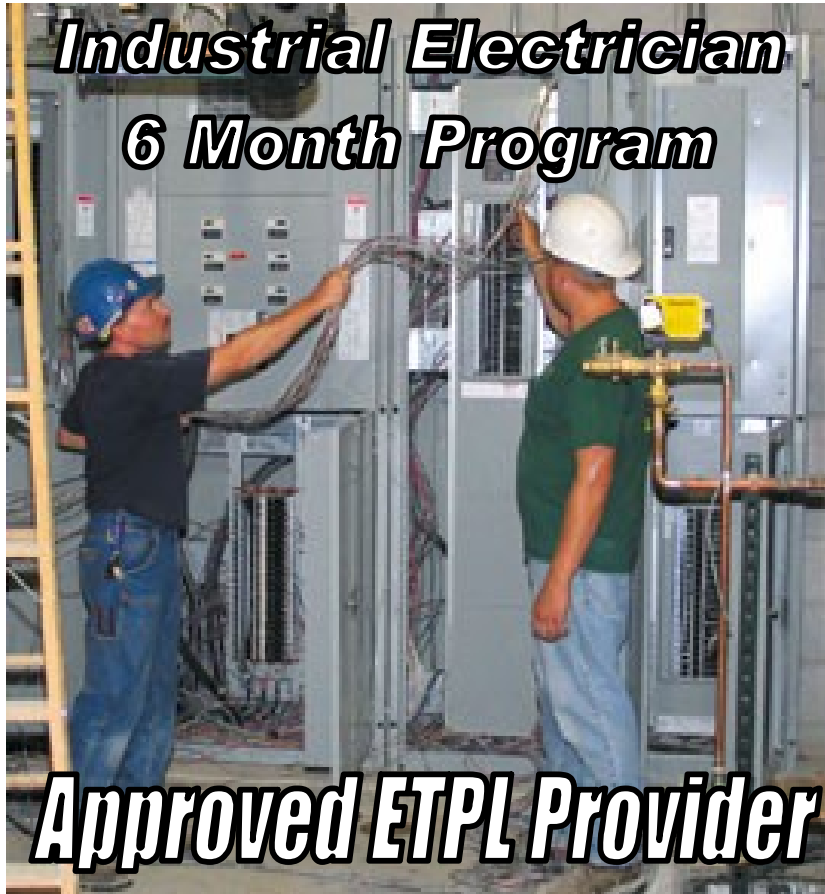
X.	Advanced Motor Controls	24 Hours
	Valves	24 Hours Lab
	Actuators	
	Bubbler System	
	Tracing	
	Temperature Devices	
	Signal Loops	
	Loop Drawings	
	Wiring	
	P& ID's	
	Special Device	

Total Hours 576

348 Classroom
228 Lab

INDUSTRIAL ELECTRICIAN PROGRAM

including Solar Installations and
Green Construction Electrical Applications



Cost \$5,800

(Payment Plan available)

**This is an
accelerated 6 month
Program
held at our Hayward
& Turlock Facilities,
Monday through
Thursday
7:00am to 1:30pm**

Program designed for:

- **Displaced workers (EDD)**
- **Vocational Rehab.**
- **High School graduates**
- **Anyone looking to start a career in construction.**

****All materials and books are supplied for this class****

CONSTRUCTION CRAFT TRAINING CENTER

LOCATIONS:

Hayward Facility

**Start Date: Open Enrollment
26200 Industrial Blvd.
Hayward, CA 94545**

Turlock Facility

**Start Date: Open Enrollment
2480 Acme Court
Turlock, CA 95380**

Please contact our office for further information or to enroll.

510-785-2282 or 800-678-6669

www.cctc.edu

a solid foundation