

ACCELERATED ELECTRICAL TRAINEE PROGRAM GENERAL INFORMATION AND CLASS 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 Accelerated Electrical Trainee Program 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 \$5400.00 per student which includes all classroom materials. There will be an additional cost for tools. Class is 24 weeks, ~~Tuesday~~ through Thursday, six hours per day from 6:30 a.m. to 2:00 p.m. for a total of 576 hours.

1	Introduction to Program	6 Class Hrs.
2.	Safety Orientation BATT Certification HAZWOPPER Certification Process Safety CPR and First Aid	48 Class Hrs.
3.	Electrical Theory Trade Math DC Circuits AC Circuits	72 Class Hrs.
4.	Conduit Bending/Wire Pulling ½ Inch EMT Power Benders Wire Pulling – Hand	12 Class Hrs. 36 Lab Hrs.
5.	Electrical Code Organization Interpretation	30 Class Hrs.
6.	Electrical Wiring Service Lighting Circuits Overcurrent Protection Panelboard Selection	24 Class Hrs. 24 Lab Hrs.

7.	Green Construction Introduction to Solar Wind Turbines Electric Charging Stations	36 Class hrs 36 Lab Hrs
8.	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	48 Class Hrs 36 Lab Hrs.
9.	Motor Controls Theory 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	48 Hours 72 Lab Hrs.
10.	Advanced Motor Controls Valves Actuators	24 Class Hrs. 24 Lab Hrs.

Bubbler System
Tracing
Temperature Devices
Signal Loops
Loop Drawings
Wiring
P & ID's
Special Device

Total Hours 576
300 Class Hours
276 Lab Hours