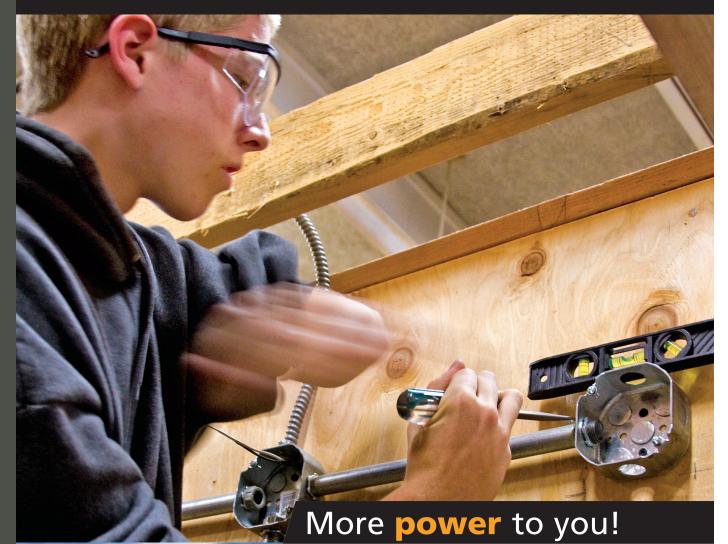


ELECTRICAL TRADE AND ALTERNATIVE ENERGY



t's an electrified world! From homes to sports stadiums to skyscrapers, we all depend on electricians to build and maintain the power systems that make modern life possible. This fast-paced program covers construction-based electrical concepts plus the newest means of generating energy including solar, wind, and geothermal technologies. So "get current" with the leading-edge skills to succeed in this evolving and well paying field!

Advanced college/trade school credit is available to qualifying students from the following institutions:









EASTERN LONG ISLAND ACADEMY OF APPLIED TECHNOLOGY

COURSE TITLE: ELECTRICAL TRADE AND ALTERNATIVE ENERGY

COURSE DESCRIPTION

This two-year program is a combination of hands-on skill development and technical training in order to prepare students for entry level employment or higher in the electrical trade. Students gain practice in traditional wiring methods and blueprint reading, as well as learn the latest renewable energy concepts including solar, wind, and geothermal technologies.

Students will take the OSHA-10 course in their first year of study with the goal of obtaining the OSHA-10 card. Second-year students will take the OSHA-30 course as well.

COURSE CONTENT

Series and Parallel Circuits Ohm's Law/Power Law **Electrical Codes** Alternating Current Theory

Trade Related Technical Math Residential/Commercial Wiring Methods Residential Service Installations **Basic Troubleshooting Techniques** Basic Electrical Measurements

Raceways

Motor Control Wiring Alternative Energy Sources

Quote from program graduate -

"Awesome experience in my life with a lot of learning."

EDUCATIONAL OPPORTUNITIES

Associate Degree

CAREER OPPORTUNITIES

Electrician's Helper LIRR/MTA Entry-Level Apprenticeships **IBEW** Apprenticeships

Building Electrical Maintenance Assistant

Electrical Utility Apprenticeships

Cable System Technician Geothermal Technician

Wind Turbine Service Technician

Entrepreneurship

CAREER OPPORTUNITIES FOLLOWING ADDITIONAL COURSEWORK

Electrician Energy Retrofitting Specialist

Energy Engineer

Solar Photovoltaic Installer

Solar Energy Manager

Data and Telecommunications Technician Electrical Power Line Installer/Repairer

SUGGESTED SUPPORTIVE COURSES

Algebra

Students enrolling in this program are expected to show proficiency in math and science by scoring a minimum of 80% on the Algebra Regents and a minimum of 75% on the Living Environment Regents.

ADDITIONAL INFORMATION

COSTS	Tools approximately \$250; approved footwear approximately \$35
LENGTH OF COURSE	2 years
LOCATIONS	Gary D. Bixhorn Technical Center, Edward J. Milliken Technical
	Center, and Harry B. Ward Technical Center
CTE/ACADEMIC CREDIT	Please see chart on pages 4 and 5 for updated details
INDUSTRY CERTIFICATION	National Center for Construction Education and Research (NCCER)
	National Registry, OSHA-10, OSHA-30



