



Maximizing **Energy Efficiency**, **Sustainability**, and **Return** **on Investment**

CALCTP—the California Advanced Lighting Controls Training Program—helps property owners, managers, architects, engineers, designers, and builders save energy and money by optimizing the operation and efficiency of advanced lighting controls equipment and systems. CALCTP certification is the key to realizing the highest return on your sustainable energy investment.



What Is CALCTP?

CALCTP is a statewide nonprofit, public/private partnership initiative to increase the effectiveness, efficiency, convenience, and use of lighting controls in commercial, industrial, and institutional facilities. CALCTP educates, trains, and certifies C-10 licensed electrical contractors and state-certified general electricians in the proper installation, calibration, programming, commissioning, and maintenance of advanced lighting controls systems. Advanced lighting controls systems include devices such as dimmers, occupancy sensors, photo-sensors, electronic ballasts, and high-efficiency lamps and fixtures, as well as communication-based control equipment.

Why Do We Need CALCTP?

Advanced lighting controls systems are sophisticated and complex.

Unfortunately, in the past, many advanced lighting controls were not correctly installed and did not achieve the expected energy savings. CALCTP is correcting that weakness with rigorous comprehensive training and certification that allows you to identify the contractors and electricians who will do the work properly and deliver an advanced lighting controls system that will perform optimally.

California currently has 9 billion square feet of commercial, industrial, and institutional space. Advanced lighting controls present an enormous opportunity to improve energy efficiency and save billions of dollars in energy costs. Your facility could benefit substantially from an advanced lighting controls system. Look for CALCTP certified contractors and electricians. They have the training and expertise to provide you with an advanced lighting controls system that produces value—the functionality, convenience, and return on investment you deserve.

Who Is CALCTP?

CALCTP is a nonprofit collaborative effort of the following organizations:

- University of California-Davis
California Lighting Technology Center
- Southern California Edison
- California Energy Commission
- California Community College System
- San Diego Gas and Electric
- 14 Lighting and Control Manufacturers
- California State Labor Management Cooperation Committee
- Pacific Gas and Electric
- Sacramento Municipal Utility District
- National Electrical Manufacturers Association

CALCTP is funded by:

- U.S. Department of Labor
- State of California Employment Training Panel
- Investor-Owned Utilities
- California State Labor Management Cooperation Committee
- TomKat Charitable Foundation
- California Energy Commission Clean Energy Workforce Training Program

How Is CALCTP Addressing the Challenge and Potential of Advanced Lighting Controls?

At the program's core is a rigorous, comprehensive course developed by the University of California-Davis' California Lighting Technology Center. The training regimen is composed of 10 hours of prerequisite study material, followed by 10 hours of lecture, plus 40 hours of hands-on lab work. Each lecture is followed by a lab segment where participants apply what they have learned by installing the devices on electrical lab boards, under the supervision of CALCTP certified instructors. To be certified, all participants must pass every lab practicum, and a demanding written exam.

CALCTP partner utilities, which serve more than 90 percent of the California market, strongly support the use of CALCTP certified contractors and electricians on all advanced lighting controls projects.

CALCTP received a \$5 million grant awarded under the American Recovery and Reinvestment Act of 2009: Energy Training and Partnership Grants, as implemented by the U.S. Department of Labor's Employment and Training Administration. One hundred percent of the grant funds are used to support this program.