

California Electrical Training, Inc.

California Energy Commission

**DOCKETED
12-BSTD-2**

TN # 68263

OCT. 30 2012

October 5, 2012

California Energy Commission
Docket No. 12-BSTD-1
Dockets Office
1516 Ninth Street, MS-4
Sacramento, CA 95814

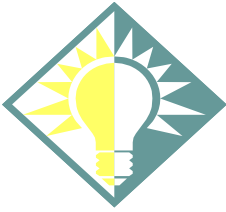
**California Energy Commission
Public Hearing on acceptance testing for lighting
controls
October 1, 2012**

Statement:

Let me introduce myself, my name is Jack Yapp, and I develop curriculums for California Electrical Training, Inc. school 151 which is approved by the Division of Apprenticeship Standards to conduct classes for electrician and electrical trainees. I have performed controls and automation systems for over 42 years including lighting controls. I started with Honeywell Controls in the late 60's. I am also one of the CALCTP trainers for Southern California Edison. I have completed SCE "Lighting Academy".

I want to express an important issue and that is **safety**. As Title 24 spells out the specifics on commissioning LTG-2A Instrumentation to perform test includes, but not limited to:

- a. Hand-held amperage and voltage meter
- b. Power meter.



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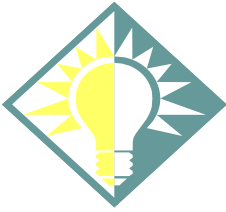
Considering that this work does not specify “Certified Electrician”, but will allow manufacture’s start-up personnel that may not understand the safety procedures on Arc-flash, as well as Lock/out Tag/out will put them in harm’s way. Most of the projects will take place on a construction site which OSHA 10 or OSHA 30 should be the basic safety training with focus on Lock/out Tag/out and Arc-flash personal protective equipment. Not all contractors or manufactures have this in place. I have a deeper appreciation of OSHA training after receiving my train the trainer card.

CALIFORNIA DEPARTMENT OF LABOR STATISTICS AND ENFORCEMENT

I have submitted to the California Department of Labor Statistics and Enforcement (who is in-charge of State Electrical Certification) a curriculum for *Non-Residential Lighting Technician*. Non-Residential Lighting Technician is a **state recognized certification**. The following is our curriculum.

Sincerely

Jack Yapp



California Electrical Training, Inc.

| SUBJECT MATTER | TOPICS | | | TOTAL HOURS |
|--------------------------------|---|---------|-----|----------------|
| | | LECTURE | LAB | |
| Electrical Safety and Tools | | 114 | 70 | 184 |
| | CPR | | 4 | 4 |
| | First Aid | | 4 | 4 |
| | Emergency Procedures | 2 | | 2 |
| | OSHA 10 | 10 | | 10 |
| | Current Meter | 2 | | 2 |
| | Voltage Meter | 2 | | 2 |
| | Lock-out/Tag-out Procedure | 2 | | 2 |
| | Using Motorized Tools | 2 | | 2 |
| | Footcandle meter | 2 | | 2 |
| | Arc-Flash / Arc Blast | 2 | | 2 |
| Lighting Technology | Fluorescent Lamp Technology | 4 | 4 | 8 |
| | HID Lamp Technology | 4 | 4 | 8 |
| | Lighting technology | 8 | | 8 |
| | Trouble Shooting and Repair Lighting Controls | 4 | 4 | 8 |
| | Energy Efficiency & LED | 4 | 4 | 8 |
| | Advance Lighting Controls | | 46 | 46 |
| Electrical Theory | | | | |
| | Ohm's Law - Voltage - Resistance | 2 | | 2 |
| | Fundamental Concept of Electricity | 2 | | 2 |
| | Series and Parallel d-c circuits | 2 | | 2 |
| | Electrical Conductors | 4 | | 4 |
| | Wiring Techniques | 4 | | 4 |
| National Electrical Code | | | | 0 |
| | National Electrical Code | 8 | | 8 |
| | Review Drawings & Specifications | 4 | | 4 |
| Title 24 Part 6 Lighting | | | | |
| | Interior Lighting Title 24 Part 6 | 16 | | 16 |
| | Outside Lighting Title 24 Part 6 | 16 | | 16 |
| Mathematics | | | | |
| | Calculation of Electrical Power Density | 8 | | 8 |