

DOCKETED

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Public Summary of Confidential Application for CALCTP Acceptance Test Curriculum Materials and Test Questions

Confidentiality Summary

Course Description: On December 12, 2012, the California Energy Commission adopted changes to the California building Efficiency Standards (Title 24, Parts 1 and 6) that require certain lighting controls and devices to be certified as properly installed and operational, prior to issuance of occupancy permits. As required in the regulations, all acceptance test technicians, responsible for testing and certification of these devices, receive targeted training to ensure they and their employers acquire minimal level of training and skill to verify nonresidential lighting controls comply with existing Energy Efficiency Building Standards. This course covers the required training mandated by the California Energy Commission (CEC).

What Exactly is Being Requested Kept Confidential: CALCTP-AT is providing to the CEC copies of CALCTP-AT course outlines, course materials, content of courses, and copies of test questions for review.

Course Outline: This course is divided into five modules consisting of both lab and lecture activities. The modules content is organized to answer the following questions about lighting controls verification: what is in the energy code, what is the test technician responsibilities, what are the employers responsibility, acceptance test processes, acceptance test procedures for indoor lighting, acceptance testing procedures for outdoor lighting, and compliance documentation.

Learning Objectives:

- Understand the purpose and scope of installation and acceptance testing
- Identify the buildings and lighting systems that require acceptance testing
- Understand the role and responsibilities of a lighting controls acceptance test technicians and technician employers
- Review lighting systems compliance documentation requirements

Course Structure: 4 modules of 4 hours each covering:

1. Lighting controls acceptance testing – Introduction and Installation Requirements
2. Lighting controls acceptance testing – Acceptance test procedures
3. Laboratory exercises
4. Review, exam, and evaluation

Class Size: Given the technical requirements of the course, CALCTP board policy requires the classroom trainer-to-trainee ratio is 1:20 and the lab ratio is 1:10.

Purpose of Test: To determine competency of CALCTP-AT Candidate in both lab and written exercises to ensure work is done accurately and efficiently.

Number of Test Questions: Each examination consists of 60 equally weighted multiple-choice questions, with four choices per question. 50 of the questions are scored and 10 of the questions are un-scored pilot questions. The pilot questions are randomly distributed throughout the examination and are not

identified. All questions will be extensively reviewed prior to use and will receive additional regular evaluation for unforeseen bias during the course of their use in the exam.

Time Limit: The time limit for the examination is two hours.

Required to Pass: In addition to a final exam, CALCTP includes lab activities that must be validated by the instructor. CALCTP requires that all participants must complete each laboratory module with 100% (Pass/Fail) competency in lab exercises to move to the next laboratory module. The final exam requires a 75% pass rate.

Learning Objectives: Test questions relate back to a job task analysis created by experts and cover the following topics:

- a. Understand the purpose and scope of lighting controls acceptance testing
- b. Understand the difference between installation and acceptance test requirements
- c. Identify the buildings, spaces and lighting systems that require acceptance testing
- d. Understand the role and responsibilities of a lighting controls acceptance test technician and technician employer
- e. Review lighting systems compliance documentation requirements