Certified Building Commissioning Professional
CBCP®
A five day seminar

Training Program for Building Commissioning Professionals

ABOUT THE SEMINAR

In addition to providing preparation for AEE’s Certified Building Commissioning Professional (CBCP®) certification program, this five-day course is designed to meet the training needs of those who need to know the technical details of the commissioning process. This comprehensive course goes into considerable technical detail on the fundamental principles of both new building commissioning and existing building commissioning (also called Re-Commissioning or Retro-Commissioning).

Commissioning is the process of ensuring that building systems are designed, installed, functionally tested, and capable of being operated and maintained according to the owner’s operational needs. Commissioning also can restore existing buildings to high productivity through renovation, upgrade and tune-up of existing systems. This program examines all aspects of building commissioning. Dozens of case studies from successfully completed projects are presented, including hospitals, data centers, airports, university campuses, school districts, commercial buildings, district heating and cooling, and research facilities taken from the instructors’ more than 40 years of combined experience in commissioning. Participants are encouraged to produce real-world examples from their own personal experience to share with the class.

The CBCP® certification exam will be administered at the close of instruction on day five of each course to those who have qualified in advance to sit for the exam by submitting a completed CBCP® application and fee.

Beelas Group is licensed by AEE to hold CBCP® training in France. For more information, please visit:
www.aeecenter.org
www.beelas.eu

COURSE INSTRUCTORS

W. DAN TURNER, Ph.D., P.E., CBCPM®, is currently president of Bee (Building energy efficiency, LLC), a company which specializes in new and existing building commissioning. In 1985 he founded the Energy Systems Lab at Texas A&M, where he was the principal investigator in the existing building commissioning process which is currently implemented in over 500 buildings worldwide, resulting in excess of $150 million in ongoing energy savings. Dr. Turner is considered a pioneer in the field of building energy efficiency, and has published widely on this topic in trade journals and other professional publications.

SONG DENG, M.S., P.E., CBCP®, CMVP®, CEA™, REP, CBCPM®, formerly served as an associate director of the Energy Systems Lab at Texas A&M University, where he managed a team of 25 energy professionals conducting Retro-Commissioning programs with a total annual budget of over $8 million. He was also program director for a comprehensive project on the Texas A&M campus for which cumulative savings exceeded $70 million over 15 years. As a leading expert, he consults and lectures widely in the area of building commissioning.
SEMINAR OUTLINE

Module 01 - Building Commissioning History, Philosophy and Fundamentals

Module 02 - Building Commissioning
2.1 Traditional Building Commissioning Approaches
2.2 Difference between Commissioning and Testing, Adjusting and Balancing (TAB) and Energy Audit (EA)
2.3 Weakness of Traditional Commissioning Approaches
2.4 Life-Cycle Building Commissioning (LCBCx)
2.5 International Commissioning Developments
2.6 ASHRAE Guideline 0

Module 03 - Prominent Resources of Building Commissioning Guidelines and Organizations
3.1 Organizations and Major Cx Certification Programs
3.2 AEE and Its Training/Certification Programs
3.3 BCA, PECI and NCBC, ACG, and Institutional Programs
3.4 ASHRAE Standard 202
3.5 LEED Rating System Commissioning Requirements and Credits
3.6 Example Forms for New Building Commissioning

Module 04 - Government Energy Conservation Goals and Cx Mandates
4.1 Major Government Sustainability Goals/Target
4.2 Government Laws and Regulations (US and International)

Module 05 - Best Practices in Retro-Commissioning (RCx)
5.1 Introduction
5.2 RCx Case Study & Work Scope, Team Qualification/Formation and Roles
5.3 Process and Phased Approach
5.4 Assessment and Implementation
5.5 From RCx to Capital Investments – RCx as “Road-Map” Tool
5.6 Performance-Based RCx - Baselines and M&V
5.7 Deferred Maintenance and RCx-Compatible O&M Program
5.8 The Training Component

Module 06 - Building System Retro-Commissioning (RCx) Know-How
6.1 Fundamentals and Energy RCx Basics
6.2 Tools, Field Measurements and Functional Testing
6.3 Good Operations and Maintenance (O&M)
6.4 HVAC System RCx
6.5 EMCS Cx and RCx
6.6 CUP RCx
6.7 Central Distribution Loops RCx

Module 07 - Best Practices (Emphasis on Government Buildings)
7.1 Hospitals
7.2 Office Buildings
7.3 Higher Education
7.4 Data Centers
7.5 Airports

Module 08 - “Brain-Storm Session”
“Show & Tell” Roundtable with “Hands-on” and “Know-How” with All Participants’ Own Live Stories – 20-minute presentation by each participant from their building and/or central utility/energy plant commissioning experiences
Module 09 - Commissioning Software Tools

Module 10 - Smart Building Commissioning

CBCP® Exam (Afternoon of the fifth day)

DATES & LOCATION

February 16-20, 2015
Hotel du Midi
http://www.midi-hotel-paris.com/

FEES

Fees below are for seminar, application for CBCP® certification and exam.

Regular Fee: € 2 300 (without VAT)
AEE Member Fee: € 2 150 (without VAT)
Government & Nonprofit Fee: € 2 150 (without VAT)

APPLY FOR AN ADMISSION TO THE SEMINAR

Name :

Company :

Job title :

Email :

Address :

Country :

Please email the register form directly to training department at training.academy@beelas.eu

A complete enrollment package will be sent to you.