




ASSOCIATE COMMISSIONING PROFESSIONAL ACP-EXAM PREP

KRISHNAJI PAWAR, LEED AP BD+C, GSAS CGP, ISO 14001:2015, CGP

COMMISSIONING SPECIALIST CURRICULUM COURSE



BEYOND
SMART CITIES

COMMISSIONING SPECIALIST
BEYOND SMART CITIES

MANAGING TRAINING ACTIVITIES

KRISHNAJI PAWAR, LEED AP BD+C, GSAS CGP, ISO 14001:2015, GCP

COMMISSIONING SPECIALIST CURRICULUM COURSE

© KRISHNAJI PAWAR



LEARNING OBJECTIVES



Develop training plan

Facilitate training activities

Training Plan and Materials

The Economics of Commissioning



TRAINING PLAN AND MATERIALS

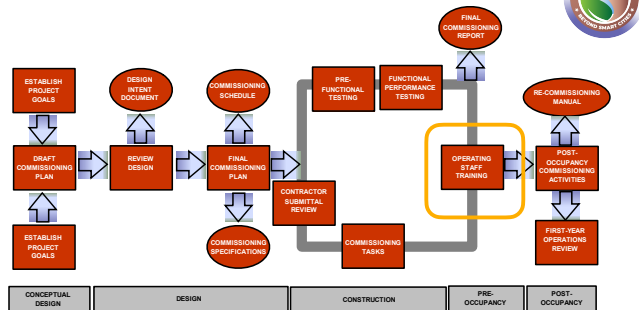
To sustain the benefits of the commissioning program it is imperative the owners operations staff be adequately trained and included in the commissioning process as commissioning test witnesses so staff can experience the dynamic operation of the system firsthand

As with all the other CxA activities ,there must be a plan and discipline for staff training .Thus ,another specified requirement for the prime contractor is to develop the training plan, schedule, including selecting qualified instructors and quality training materials that are approved by the design professional.

Part of the plan must include training for staff about the owner's project requirements ,the basis of design ,and design philosophies developed by the design professional

Even though it is not the prime contractor 's responsibility to coordinate and perform this training (that falls to the CxA professional and design professional),the training must be identified in the CxA plan and schedule so activities that must occur in logical sequence will be scheduled accordingly.

TYPICAL COMMISSIONING PROCESS



FACILITATE TRAINING ACTIVITIES

The Commissioning Authority, along with the Testing Contractor when one is being used, should coordinate the training for the owner's operations staff.

In cases where there is a Test Contractor, the Commissioning Authority holds responsibility for training based on input from the Design Professional, and the Test Contractor coordinates training for systems and equipment covered by the contractor, subcontractor, and vendors.

In all cases all training needs to be integrated into the overall Commissioning Plan and parallel Construction Schedule.

Although much of the training may be on-the-job, training information must be documented, either in written format or by video, etc. for future use by new employees or existing employees participating in refresher training.



THE ECONOMICS OF COMMISSIONING

- ☑ **Economic Benefits :** Unfortunately, qualitative benefits alone will not make a convincing case for commissioning.
- ☑ **Commissioning Cost:** Determining commissioning cost can vary in range from \$0.25 per square foot per year to over \$2.50 per square foot per year.
- ☑ **Commissioning Savings**
- ☑ **Reported Commissioning Cost Savings** Cost savings resulting from commissioned versus non-commissioned facilities for energy savings are reported from 8 to 50 percent with average savings of about \$.75 per square foot.